



दिल्ली विश्वविद्यालय  
UNIVERSITY OF DELHI

93<sup>rd</sup>  
**annual**  
**report**  
(Part - I) | 2015 - 16



# **93<sup>rd</sup> Annual Report**

**2015-2016**

**Part-I**



**University of Delhi**

**Delhi**

**[www.du.ac.in](http://www.du.ac.in)**

University of Delhi  
93<sup>rd</sup> Annual Report

PREFACE

The University of Delhi is a premier university of the country. Established in 1922, it continues to sustain the highest global standards and best practices in higher education to foster its long-term commitment to nation building and an unflinching adherence to universal human values. It is with pleasure and a sense of pride that the 93<sup>rd</sup> Annual Report, covering the period from 1 April 2015 to 31 March 2016 is being presented.

The University was ranked 6<sup>th</sup> in the National Institutional Ranking Framework. The h-index of the University touched 128, one of the highest among Indian universities. The University received more than Rs 131 crores of grants in 2015-16 from extramural sources with over 260 Major and Minor research projects running in the current context. It has given grants of around Rs 35 crores to its department faculty as Research and Development Grants and as Innovation Projects to its colleges resulting in several prestigious research publications, books and patents. The University has set up several incubators such as the Electropreneur Park and Technology Business Incubators to encourage entrepreneurship.

With 16 Faculties, 82 Departments, 85 Colleges and 20 Centres, the University offers about 500 programmes of study, which include undergraduate programmes, an array of postgraduate programmes (Masters, M.Phil and Ph.D.), and Certificate and Diploma programmes. It has implemented the Choice Based Credit System (CBCS) at the undergraduate level and offers various skill-based programmes. It also plans to add to the diversity of the programmes by establishing new centres such as the School of Journalism, School of Transnational Affairs and the Institute of Cyber law and Security in the coming year.

As a research-intensive university, the University aims to strengthen and invigorate the research culture to achieve international distinction through excellence in research and innovation. Towards this objective, it plans to frame a policy to incentivize research, innovation and collaboration. It is also planning to undertake various quality initiatives such as obtaining feedback from students on the basis of a Students' Experience Survey.

The University is moving forward with digitization of various processes. It has made the admission process completely online and conducts entrance tests in different cities. It has also introduced online fee collection and an online student grievance redressal system. It is also focusing on the implementation of the system of e-procurement and taking more initiatives for good governance.

With a vision to emerge as a world leader in education and research, the University of Delhi is privileged to contribute significantly to the intellectual growth of the country by serving around seven lakh students and faculty from all across India and abroad. Presented here is the 93<sup>rd</sup> Annual Report of the University.



(Yogesh Tyagi)  
Vice Chancellor  
University of Delhi

## EDITORIAL COMMITTEE

The 93<sup>rd</sup> Annual Report of the University of Delhi for the year ending 31<sup>st</sup> March 2016 is presented here. The Report consists of two parts: Part-I contains information about the University of Delhi's academic progress including Faculties, Departments, Centres and Colleges, Infrastructural Developments, and Finance. Part-II carries Information and Data.

The Editorial Board, which prepared this Report, comprised the following members:-

1.	Prof. Pami Dua	Dean Academic Activities, Chairperson
2.	Prof. Devesh K. Sinha	Dean of Colleges
3.	Prof. Tarun Kumar Das	Registrar, University of Delhi
4.	Prof. Ajay Kumar	Dean Research (Phy. Sc. & Math Sc.)
5.	Prof. M.M. Chaturvedi	Dean Research (Life Science)
6.	Prof. Christel R. Devadawson	Department of English
7.	Prof. Vijay Chaudhary	Department of Bio-Chemistry
8.	Prof. Neera Agnimitra	Department of Social Work
9.	Dr. Deepika Bhaskar	Deputy Dean, Research
10.	Capt. Parminder Sehgal	Deputy Proctor
11.	Dr. Prem K. Srivastava	English, Maharaja Agrasen College
12.	Dr. Vinod Kumar Singh	Department of English
13.	Dr. Swetha Antony	Department of English
14.	Dr. Vikas Gupta	Joint Registrar (Council)

Co-opted members:

i)	Prof. Sanjay Kapoor	Department of Plant Molecular Biology
ii)	Prof. Anupam Chattopadhyay	Department of Geology
iii)	Prof. Anita Sharma	Department of East Asian Studies
iv)	Prof. Shobha Bagai	Cluster Innovation Centre
v)	Dr. K. Ratnabali	Deputy Dean, Legal
vi)	Dr. Mukesh K. Mehlawat	Department of Operational Research

The Report presents the highlights of the activities and achievements of the University of Delhi during the year 2015-2016 (1<sup>st</sup> April 2015 to 31<sup>st</sup> March 2016).

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## OFFICERS OF THE UNIVERSITY

### **Chancellor**

Hon'ble Mohd. Hamid Ansari, Vice President of India

### **Pro-Chancellor**

Justice H.L. Dattu upto 02.12.2015

Justice Tirath Singh Thakur w.e.f. 03.12.2015

### **Vice-Chancellor**

Prof. Dinesh Singh upto 28.10.2015

Prof. Sudhish Pachauri, Acting VC upto 9.03.2016

Prof. Yogesh Kumar Tyagi w.e.f. 10.03.2016

### **Pro-Vice-Chancellor**

Prof. Sudhish Pachauri upto 9.03.2016

### **Dean of Colleges**

Prof. Malashri Lal

### **Director, South Delhi Campus**

Prof. Umesh Rai

### **Director, Campus of Open Learning**

Prof. C.S. Dubey (Offg)

### **Treasurer**

Shri T.S. Kripanidhi

### **Proctor**

Prof.(Ms.) Satwanti Kapoor

### **Dean Students Welfare**

Prof. J. M. Khurana

### **Registrar**

Prof. Tarun Kumar Das

## **Deans of Faculties**

### **Arts**

Prof. Minni Sawhney

### **Science**

Prof. Devesh K. Sinha

### **Social Sciences**

Prof. Sreemati Chakrabarti upto 28.12.2015

Prof. J.P. Dubey w.e.f. 29.12.2015

### **Law**

Prof. Ashwani Kumar

### **Management Studies**

Prof. M.L. Singla

### **Mathematical Sciences**

Prof. Jagdish Saran

### **Medical Sciences**

Prof. Reva Tripathi upto 02.09.2015

Prof. Sudha Prasad w.e.f. 03.09.2015

### **Music & Fine Arts**

Prof. Uma Garg upto 15.10.2015

Prof. Manjushree Tyagi upto 31.01.2016

Prof. Suneera Kasliwal w.e.f. 01.02.2016

### **Technology**

Prof. Sudhish Pachauri, PVC upto 9.03.2016

### **Ayurvedic and Unani**

Dr. Mohd. Idris Khan

### **Education**

Prof. Sadhna Saxena

**Inter-Disciplinary and Applied Sciences**

Prof. J.P. Khurana upto 15.09.2015  
Prof. Pradeep Kumar Burma w.e.f. 16.09.2015

**Applied Social Sciences and Humanities**

Prof. Suresh Chand Aggarwal

**Commerce & Business**

Prof. Muneesh Kumar

**Homeopathic Medicine**

The Dean, Faculty of Medical Sciences

**STUDENT ENROLLMENT**

As per 2015-16 data, the University has 1,92,142 undergraduate, 24,321 post graduate students, including M.Phil/Ph.D students and 6,338 in Certificate/Diploma/PG Diploma on rolls. The total number of students enrolled in conventional mode is 2,22,801. Additionally, as many as 4,32,436 students are enrolled in the distance mode and 18,489 non-collegiate women students also form part of this mammoth University. The total enrollment across conventional and distance mode in all programmes was 6,73,726 during 2015-16. At present, more than half of the students come from states other than Delhi.

## ACHIEVEMENTS OF THE YEAR

The University of Delhi has the privilege of a venerable legacy as an institution dating back to 1922. Established by an Act of Parliament, it is guided by the statutes, ordinances, rules and regulations that are stipulated.

With 16 Faculties, 82 Departments, 20 Centres, 85 constituent Colleges, 1 Community College, the University of Delhi is one of the largest universities in India. With more than 6 lakh students in the formal and non- formal/ distance education mode, the University of Delhi, in keeping with its traditions and development, has moved from strength to strength.

This is reflected in the achievements and signposts established by the University during the past one year of reporting. Brief overviews of the noteworthy achievements of the year 2015-2016 (1 April 2015- 31 March 2016) are presented here.

### Foundation Day

The University of Delhi celebrated its 93<sup>rd</sup> Foundation Day on May 1, 2015. The University Flag was unfurled by the Chief Guest, former Vice Chancellor of the University, Prof. Upendra Baxi. Remembering a long tradition of dedicated academic work, Honours and Awards were conferred upon teachers and distinguished persons who have served the University with dedication and consistency. The highest award of the University, “Nishtha Dhritih Satyam Samman” was conferred upon Prof. Upendra Baxi. “Distinguished Service Awards” to nine retired professors from Botany, Economics, History, Management, Mathematics, Music, Social Work, Urdu and four retired service personnel were also conferred. Besides this “Teaching Excellence Award for Innovation” based on the performance of the Innovation projects granted by the University of Delhi were also given to 93 college teachers involved in 28 Innovation Projects.

### Rankings of the University

- Ranked 6 in National Institutional Ranking Framework (NIRF) conducted by the Department of Higher Education, Ministry of Human Resource Development (MHRD).
- The Department of Social Work has been ranked as number 2 among educational institutions offering Social Work education in the country by the Outlook Drashti Survey 2016.
- On the basis of publications, the Department of Economics was ranked the highest amongst University Economics departments in India for the fifth consecutive year by Repec, a global electronic archive of working papers and publications in Economics (<http://ideas.repec.org/top/top.india.html>)

Overall Ranking 2016	
QS BRICS	41
QS Asia	66
QS World	601-801
QS BRICS 2016	
Academic Reputation	19
Employer Reputation	11



<b>QS World Subject-Wise, 2016</b>	
Anthropology	51-100
Geography and Area Studies	151-200
Sociology	151-200
Economics and Econometrics	201-300
Physics and Astronomy	201-300
Chemistry	301-400
Biological Sciences	301-400
Mathematics	301-400

<b>QS BRICS</b>		
<b>Indicators</b>	<b>2015</b>	<b>2016</b>
Academic Reputation	18	19
Employer Reputation	11	11
Faculty Students	201+	101+
Paper per faculty	201+	101+
Citation per paper	18	64
International Faculty	201+	101+
International Students	201+	101+
Staff with PhD	112	79

## **Research Highlights**

### **h-index**

As per Scopus database, the h-index of the University of Delhi is 128, one of the highest among Indian Universities

### **Research Publications**

As per Scopus database records, the total number of publications for the period are numbered as 1795.

As per records of the University, the total number of publications from 2012-16 are 9242 (7245 research papers, 167 monographs, 1083 chapters in books, 316 edited books and 431 books)

### **Researchers with top publications/citation/h-index**

Three faculty members of the University from Department of Physics & Astrophysics are amongst top 10 researchers across the country in term of research publication, citation and h-index (source-DST).

Prof. Brajesh Choudhary

Dr. Kirti Ranjan

Dr. M. Naimuddin

### **Extramural Research Grants**

- University of Delhi is the recipient of the highest DST-PURSE grant for the Phase-II (2014-2019) : Rs. 40.80 crores
- Total Grant from Major Research Projects: Rs 114.14 crores
- Total Grant from Minor Research Projects: Rs 82.08 crores

**Total Grant Received in 2015-16 = Rs 13183.17 lakhs**

### **Grants Received Department wise (Selected)**

Department	Grant in Rupees Lakhs
ACBR	628.49
Anthropology	295.34
Biochemistry	1396.48
Botany	651.36
Chemistry	839.00
Computer Science	42.01
Environmental Studies	300.70
Genetics	3010.00
Mathematics	35.65
Microbiology	481.87
Operational Research	43.30
Physics & Astrophysics	2750.10
Plant Molecular Biology	1893.18
Zoology	815.70

Around 260 externally funded Major and Minor Research Project are ongoing in the various departments of the University.

The University has extramural research projects from almost every national funding agency and many international funding agencies like DBT, DST, IFICAR, UGC, MOEF, IAEA, ICAR, DRDO, CSIR, MOES, ICMR, MNRE, World Bank, TERI, Indo-USSTF, GAIL, IUAC, ICSSR, USA, MCIT, NUST, Univ. of Norway, Univ. of Turkey, ISRO, SDTT, Vigyan Prasar, SERB-DST, Japan Foundation, SEWA-THDC, MOSJ&E, DAE, MWCD, INSA, TISS-DU, Leverhulme Trust UK, ICHR etc.

**Departments with Fund for Improvement of S&T (DST-FIST): Ten**

- ❖ Anthropology
- ❖ Biochemistry
- ❖ Botany
- ❖ Chemistry
- ❖ Genetics
- ❖ Geology
- ❖ Mathematics
- ❖ Physics & Astrophysics
- ❖ Plant Molecular Biology
- ❖ Zoology

**Departments with Financial Assistance under UGC-Special Assistance Programme (SAP)**

**Departmental Research Support (DRS)- Twelve**

- ❖ Anthropology
- ❖ Biochemistry
- ❖ Botany
- ❖ Dr. B.R. Ambedkar Centre for Biomedical Research
- ❖ Germanic & Romance Studies
- ❖ Genetics
- ❖ Geography
- ❖ Hindi
- ❖ Microbiology
- ❖ Modern Indian Languages & Literary Studies
- ❖ Persian
- ❖ Plant Molecular Biology

**Department Special Assistance (DSA) – Three**

- ❖ English
- ❖ Mathematics,
- ❖ Music & Fine Arts

**Centre for Advance Studies (CAS)- Eight**

- ❖ Buddhist Studies
- ❖ Chemistry
- ❖ Economics
- ❖ Geology
- ❖ Linguistics
- ❖ Social Work
- ❖ Sociology
- ❖ Zoology

#### **Area Studies Programme (ASP)- Four**

- ❖ African Studies
- ❖ Centre for Canadian Studies
- ❖ Developing Countries Research Centre
- ❖ East Asian Studies

#### **Faculty Members with grants above Rupees One crore**

During the period under report, some faculty members of the University have been sanctioned Research Projects of the value of more than Rupees one crore each

- Prof. Deepak Pental, Department of **Genetics**, Rs 1.88 crores from DBT-BBSRC
- Prof. B.K. Thelma, Department of **Genetics**, Rs 5.71 crores from DBT.
- Prof. B. K. Thelma, Department of **Genetics**, Rs 1.88 crores by DBT-BBSRC
- Prof. Vinay Gupta, Department of **Physics & Astrophysics**, Rs 2.14 crores from DRDO.
- Dr. Kirti Ranjan, Department of **Physics & Astrophysics**, Rs 3.27 crores and Rs 1.1 crores from DST.
- Prof. Sanjay Kapoor, Department of **Plant Molecular Biology**, Rs 1.31 crores and 1.67 crores from DBT
- Prof. J.P. Khurana, Department of **Plant Molecular Biology**, Rs 1.38 crores from DBT
- Dr. A. K. Sharma, Department of **Plant Molecular Biology**, Rs. 1.3 Crore by DBT “Tomato ripening network”
- Prof. Sanjay Kapoor, Department of **Plant Molecular Biology**, Rs. 1.88 Crore by DBT

#### **Faculty Members with grants above Rupees Ten lakh**

<b><u>S. No.</u></b>	<b><u>Name</u></b>	<b><u>Department</u></b>
1.	Dr. Vineeta	ACBR
2.	Dr. Yatendra Kumar	ACBR
3.	Dr. Praveen Kumar	ACBR
4.	Dr. Shafikur Rehman	ACBR
5.	Dr. Md. Tabishrehman	ACBR
6.	Dr. Meenal Dhall	Anthropology
7.	Prof. Suman Kundu	Biochemistry
8.	Prof. Suman Kundu	Biochemistry
9.	Prof. Debi P. Sarkar	Biochemistry
10.	Prof. Sandeep Das	Botany
11.	Prof. D.B. Sahoo	Botany
12.	Prof. Suman Lakhanpal	Botany
13.	Prof. Renu Deswal	Botany
14.	Prof. R. Geeta	Botany
15.	Prof. Monika Datta	Chemistry
16.	Prof. Rama Kant	Chemistry
17.	Prof. S.K. Awasthi	Chemistry
18.	Prof. Firasat Hussain	Chemistry
19.	Prof. Akhilesh K. Verma	Chemistry
20.	Prof. A. Sakthivel	Chemistry
21.	Prof. Diwan S. Rawat	Chemistry
22.	Prof. N. Thirupathi	Chemistry
23.	Prof. Sunil K. Sharma	Chemistry

24.	Prof. Inderjit Singh	CEMDE
25.	Dr. Chirashree Ghosh	CEMDE
26.	Dr. Jyoti Sharma	Cluster Innovation Centre
27.	Dr. Jyoti Sharma	Cluster Innovation Centre
28.	Prof. Poonam Batra	Education
29.	Prof. Enakshi Sharma	Electronic Science
30.	Prof. Mridula Gupta	Electronic Science
31.	Dr. Chirashree Ghosh	Environmental Studies
32.	Dr. Sanjay Sehgal	Financial Studies
33.	Prof. A. K. Pradhan	Genetics
34.	Dr. Jagreet Kaur	Genetics
35.	Prof. M V Rajam	Genetics
36.	Dr. Shivani Mittal	Genetics
37.	Prof. Deepak Pental	Genetics
38.	Dr. Kaustuv Datta	Genetics
39.	Prof. Deepak Pental	Genetics
40.	Dr. Vartika Sinha	Genetics
41.	Prof. Tanmoy Bhattacharya	Linguistics
42.	Prof. A. Venkat Raman	Management Studies
43.	Dr. Neelija Singhal	Microbiology
44.	Dr. Swati Saha	Microbiology
45.	Prof. Vinay Gupta	Physics & Astrophysics
46.	Prof. B.C. Choudhary	Physics & Astrophysics
47.	Prof. Vinay Gupta	Physics & Astrophysics
48.	Prof. Binay Kumar	Physics & Astrophysics
49.	Dr. Md. Naimuddin	Physics & Astrophysics
50.	Prof. Binay Kumar	Physics & Astrophysics
51.	Dr. Ashok Kumar	Physics & Astrophysics
52.	Prof. Debajyoti Choudhury	Physics & Astrophysics
53.	Prof. D.N. Gupta	Physics & Astrophysics
54.	Prof. Sanjay Jain	Physics & Astrophysics
55.	Prof. Navnita C. Behera	Physics & Astrophysics
56.	Dr. N. Sukumar	Physics & Astrophysics
57.	Prof. Amitabha Mukherjee	Physics & Astrophysics
58.	Prof. G K Pandey	Plant Molecular Biology
59.	Dr. Amarjeet Singh	Plant Molecular Biology
60.	Prof. Saurabh Raghuvanshi	Plant Molecular Biology
61.	Dr. Bushra Saeed	Plant Molecular Biology
62.	Dr. A. Malathi	Social Science
63.	Dr. Balram Shukla	Sanskrit
64.	Prof. Rakesh Kumar Seth	Zoology
65.	Prof. Rup Lal	Zoology
66.	Prof. Yogender Singh	Zoology
67.	Prof. R.K. Seth	Zoology
68.	Prof. Rajagopal Raman	Zoology
69.	Prof. Rita Singh	Zoology
70.	Prof. Rajagopal Raman	Zoology

In addition to the above mentioned projects, 74 projects with a total grant of Rupees 3.31 crores have been sanctioned to faculty members of various departments of the University by different funding agencies.

### **Foreign Grants**

<b>Name</b>	<b>Department</b>	<b>Amount</b>
Prof. Diwan S. Rawat	Chemistry	USD-19800
Prof. D.K. Singh	Zoology	Euro-4735
Dr. Radhika Chopra	Sociology	Euro-13800
		Euro- 5900

### **Grants from University of Delhi**

#### **Research and Development (R & D) Grant**

The University supports the faculty members of the University departments by providing Research and Development (R & D) grants – up to Rs 3.0 lakhs to faculty members of Science departments and up to Rs 1.50 lakhs to faculty members of Humanities and Social Sciences departments based on research proposals submitted by them.

In the year 2015-16, 387 R & D projects were awarded to faculty members of various department of total value of Rupees. 9.00 crore.

#### **Innovation Projects in Colleges**

- The University has a special scheme of Innovation Projects Programme to encourage undergraduate research in colleges.
- For the third round (2015-16), 317 Innovation Projects have been sanctioned of a total grant of over Rupees 14.63 crores. The focus is on urban, social and scientific innovation.
- A total of 364 Innovation Projects were awarded from 2012-2015 (First Round- 2012-13: 113, Second Round - 2013-15: 251 Projects) with significant outcomes.
- Most of the innovation projects of the round 2013-15 have shown valuable outcomes with 112 publications and 9 books.

### **Awards/Honours to the University Faculty**

- Prof. J.P. Dubey, Department of **Adult Continuing Education & Extension**, Best Educationist Award by Newspaper Association of India (NAI).
- Prof. Debi P. Sarkar of Department of **Biochemistry**, J.C. Bose National Fellowship from DST for the second term for five years (2015-2020).
- Prof. Arun K. Pandey of Department of **Botany**, Panchanan Maheshwari Medal, Indian Botanical Society, 2015
- Prof. Arun K. Pandey of Department of **Botany**, President, Plant Science, Indian Science Congress Association, 2015
- Prof. Rama Kant of Department of **Chemistry**, Elected Fellow of the Indian Academy of Sciences
- Dr. Dibyendu Maiti of Department of **Economics**, Delhi School of Economics, Research Incubation Award 2015, The University of the South Pacific.
- Prof. Pami Dua of Department of **Economics**, Delhi School of Economics, President of The Indian Econometric Society (TIES), 2015-16.

- Prof. Santosh Panda of Department of **Economics** (on lien), Delhi School of Economics, appointed Vice President of South Asian University.
- Prof. Anita Sharma of Department of **East Asian Studies**, Second World Buddhist Outstanding Award 2015 from Government of Thailand and the World Fellowship of Buddhist Youth.
- Prof. Maharaj Pandit of Department of **Environmental Studies**, Elected Fellow of National Academics of Sciences (NASI).
- Prof. G.V.R Prasad of Department of **Geology**, J.C. Bose National Fellowship 2016.
- Prof. Inderjit Singh of Department of **Environmental Studies**, Robert H. Whittaker Distinguished Ecologist Award, Ecological Society of America, 2015
- Prof. M V Rajam of Department of **Genetics**, Elected Fellow of The Indian National Science Academy, New Delhi-2015
- Prof. Sunil Kumar of Department of **History**, Allianz Distinguished Visiting Scholar in Islamic Studies, Institute for Near and Middle Eastern Studies, Ludwig Maximilians University, Munich June 2015.
- Dr. Sheoraj Singh of Department of **Hindi**, State level award from Delhi Government on the eve of Constitution Day 26<sup>th</sup> November ‘2015
- Prof. Kusumlata of Department of **Hindi**, Presidential Award Category (Role Model) on 4 Dec 2015 for academic achievements and social work.
- Prof. J.S. Virdi of Department of **Microbiology**, DBT-BIRAC Ideathon Award on Antimicrobial Resistance March 2016
- Prof. Suneera Kasliwal of Department of **Music and Fine Arts**, ‘Marwar Ratna Padmashri Komal Kothari Award’ for outstanding work done in the Field of Rajasthani music & musical instruments conferred upon by the Meherangarh Museum Trust, Jodhpur for the year 2015.
- Prof. Deepti Bhalla of Department of **Music and Fine Arts**, Sangeeta Nritta Visharada’ awarded by the Irayimman Tampi Trust (Royal family of Travancare, Kerala), Nov. 2015 and Narada Gana Sabha award, Chennai, Oct. 2015.
- Prof. Prateek Chaudhari of Department of **Music and Fine Arts**, Smt. Shanti Devi Samman, Delhi 22nd Feb 2016.
- Dr. Sanjeev Kumar of **Netaji Subhash Institute of Technology**, Early Career Research (Young Scientist) Award 2016 from SERB, DST.
- Prof. N.K. Chadha of Department of **Psychology**, Global Practitioner of the year for Career Development by National Career Development Association (NCDA), USA, in 2015.
- Prof. Navnita Chadha Behera of Department of **Political Science**, IBIES, Erasmus Mundus Visiting Fellow, University of Warsaw, Poland June 2015-July 2015.
- Prof. J.P. Khurana of Department of **Plant Molecular Biology**, Lifetime Achievement Award 2015 by SciGenom Research Foundation, during the NGBT Conference, Hyderabad, October 2015.
- Prof. P. Khurana of Department of **Plant Molecular Biology**, nominated NASI member to the Council, Indian National Science Academy, 2016.
- Prof. A.K. Tyagi of Department of **Plant Molecular Biology**, President, National Academy of Sciences, India.
- Prof. Anil Grover of Department of **Plant Molecular Biology**, Sir J.C. Bose National Fellow, Department of Science and Technology, Government of India (2015-2020).
- Prof. Ramesh Chandra Bharadwaj of Department of **Sanskrit**, Vidyananda Vedic Award, Arya Pratinidhi Sabha, New Delhi, 7 Nov., 2015.
- Dr. Bhartendu Pandey of Department of **Sanskrit**, Vidwatdbhooshan Award by Kashi Vidvad Parishad, Varanasi, Nov. 2015.
- Prof. Nandini Sundar, Department of **Sociology**, Ester Boserup Prize 2016.

## Awards/Fellowships in Medical Sciences

- Dr. Anirban H. Choudhuri of **Department of Anaesthesia and Intensive Care**, Honour of Excellence” by Indian Society of Critical Care Medicine.
- Prof. S.B. Sharma of Department of **Biochemistry (UCMS)**, President, Indian Society of Atherosclerosis Research, 2015 – 2017.
- Dr S K Rasania, Department of **Community Medicine (LHMC)**, Fellowship of Indian Association of Preventive & Social Medicine (FIAPSM).
- Dr. S.K. Bhasin of Department of **Community Medicine (UCMS)**, Dr. Harcharan Singh Oration at 43<sup>rd</sup> Annual National Conference of Indian Association of Preventive and Social Medicine held at GMERS Medical College, Gandhinagar, 7<sup>th</sup> January 2016.
- Dr. A.K. Sharma of Department of **Community Medicine (UCMS)**, DHR Fellowship for Foreign University as a Visiting Scholar to University of Illinois, USA, April – June 2015.
- Dr. Archana of Department of **Dermatology & STD (UCMS)**, 1<sup>st</sup> Dermasource Innovation Award 2015.
- Dr. Vijay Kumar Garg of Department of **Dermatology & STD (UCMS)**, IADVLSystopic Oration award on “Sjs-Ten A Critical Analysis And Effective Modification Of Scorten & A Strong Recommendation for Adopting Conservative Management” at 44th National Conference of Indian Association of Dermatologists, Venereologists and Leprologist during Dermacon 2016, 21st-24th January 2016, Mangalore, India.
- Dr. B. Uppal of Department of **Microbiology (MAMC)**, Alumnus Award (MAMC).
- Dr. R. B. Ahuja of Department of **Burns and Plastic (MAMC)**, Outstanding Teacher of the Year award from Association of Plastic Surgeons of India.
- Dr. Siddarth Ramji of **Maulana Azad Medical College**, Delhi State Health Award for Outstanding Contribution to Health in 2015.
- Dr. A. Aggarwal of Department of **Medicine (UCMS)**, Fellowship of Indian College of Physicians.
- Dr. S. V. Madhu of Department of **Medicine (UCMS)**, Chikitsa Bhushan Award by Delhi Medical Association in 2016.
- Dr S Ramji of Department of **Pediatrics (MAMC)**, Delhi State Health Award for Outstanding Contribution to Health, 2015 and Ramachandran Oration, Nutrition Foundation of India, 2015 and Manish Memorial Oration, Pediatric Surgery Deptt, MAMC, 2016.
- Dr Urmila Jhamb of Department of **Pediatrics (MAMC)** the Appreciation Award from Government of Delhi (Secretary Health) for exemplary work done during dengue outbreak.
- Dr. Vandana Roy of Department of **Pharmacology (MAMC)**, Foundation for Advancement in Medical Education and Research (FAIMER) Fellowship programme 2016.
- Dr. L. Upreti of Department of **Radiology (UCMS)**, National Leader Award by Delhi State Chapter of IRI, President elect Delhi State Chapter of Indian Radiological and Imaging Association from Feb. 2016 to Feb. 2017 and Academic Promotion Award from Delhi State Chapter of IRIA, Feb. 2016.
- Dr. Anuradha Chowdhary of **Vallabhbhai Patel Chest Institute**, Elected Fellow of Royal College of Pathologists (FRCPath), London, United Kingdom, September 2015.

## E-journals of the University

The University of Delhi publishes three e-journals:

- *The Delhi University Journal of Undergraduate Research and Innovation* (ISSN 2395-2334), an online bi-annual peer reviewed research journal (first of its kind in India).



- *The Delhi University Journal of the Humanities and the Social Sciences* (ISSN 2348-4357), peer-reviewed research journal.
- *DU-Vidha: The Delhi University Journal of Creative Writing* (ISSN 2347-9094) published twice a year.

### **Seminars/Conferences/Workshops (Selected)**

- Department of **Adult Continuing Education & Extension** organized Seminar for student scholars from University of Wurzburg on 6-10 September, 2015.
- Department of **Adult Continuing Education & Extension** organized Seminar on Prior Learning and its Integration in Re-skilling of Neo-literates on 17– 18 March -2016.
- Department of **Anthropology** organized National Seminar on “Celebrating Anthropology: The Human Science” 2016.
- Department of **Arabic** organized Seminar on “Indian Wisdom: Panchtantra / Kalilahwa Dimnah; Tradition, History & Culture” on 8-10 March 2016.
- Department of **African Studies** organized National Conference on “Africa Since 2000: Transition and Change” on 18 – 19 February, 2016.
- Department of **Biochemistry** organized Seminar on ‘Genome Biology and Big Data Bioinformatics’ at Biotech Centre Auditorium University of Delhi on March 29, 2016.
- Department of **Biochemistry** organized Seminar on ‘Frontiers in Proteomics Research’ at S.P. Jain Auditorium, University of Delhi on March 18, 2016.
- Department of **Biophysics** organized Seminar by Prof. Nick S. Jones, Imperial College, London on 16 December, 2015.
- **Dr. B. R. Ambedkar Centre for Biomedical Research** organized 6<sup>th</sup> Workshop on Bioinformatics and Molecular Modelling in Drug Design, on 21-23 January, 2016.
- **Dr. B. R. Ambedkar Centre for Biomedical Research** organized 10<sup>th</sup> Symposium on Frontiers in Biomedical Research on “Comprehending Genes@ work: From Structural Biology to Drug Discovery” on 29-31 October 2015.
- Department of **Chemistry** organized International Conference on “Materials Science and Technology” on 1-4 March, 2016.
- Department of **Chemistry** organized “DU-JAIST Indo-Japan Symposium” on Functional Molecules/Materials on 26-27 February 2016.
- Department of **Commerce** organized 4<sup>th</sup> Annual International Convention on “Corporate Governance and CSR: Retrospect and Prospects” on 18-19 December 2015
- **Cluster Innovation Centre** organized an Outreach program on IPR for MSMEs on 17th March 2016 at Faridabad in collaboration with PHD Chamber of Commerce and Ministry of MSME.
- Department of **Computer Science** organized 4<sup>th</sup> International Conference on “Big Data Analytics CRDA”, Hyderabad, December, 2015.
- Department of **East Asian Studies** organized V.P. Dutt Memorial Lecture on “The Long March that Never Was: The Delhi-Peking Friendship March of 1963 and its Global Context” by Prof. Tansen Sen, City University of New York, April 2015.
- Department of **Economics**, Delhi School of Economics organized Annual International Conference “Winter School 2015”, 14-16 December, 2015.
- Department of **Economics**, Delhi School of Economics organized Public Lecture by Prof. James K. Boyce, University of Massachusetts on “ Climate Bonus: Designing Climate Policy as if the Present Generation Matters” on 27 April, 2015.

- Department of **Electronic Science** organized Seminar on “Outlook and Challenges of Electrostatic Discharge (ESD) – Protection of Modern and Future Integrated Circuits” by Prof. Juin J. Liou, Pegasus Distinguished Professor and Lockheed Martin St. Laurent Professor of Engineering, University of Central Florida, Orlando, Florida on 14 December, 2015.
- Department of **English** organized Workshop on “Publishing and Disseminating Dalit Literature” on 17-19 December 2015.
- Department of **English** organized Workshop on “The Future of North-East Studies in English Department” on 24-25 February 2016.
- Department of **Financial Studies** organized Faculty Development Programme on “Leveraging Research Tools for Quality Research” in association with Ramanujan College, University of Delhi and Indian Accounting Association, NCR Chapter on 15-20 June, 2015 at South Campus for teachers and researchers.
- Department of **Geography**, Delhi School of Economics organized Workshop on Disaster Risk Reduction and Livelihood Security in the Himalayan Environment on 23 December 2015.
- Department of **Geology** organized Seminar on “Tectonic Deformation Zones across the Himalaya” by Dr. Rasmus Thiede, Institute for Earth and Environmental Science, Potsdam University, Germany on 22 February, 2016.
- Department of **Germanic and Romance Studies** organized Conference on “Borders: Metaphorical and Physical” on 3-5 March 2016.
- Department of **History** organized Workshop on “Feminist Theories and Methodologies” from February-March 2016 at Women’s Studies and Development Centre, University of Delhi.
- Faculty of **Law** in collaboration with Law Centre-I organized International Conference on Global Legal Education, Convergence of National Laws, Best practices in Teaching and Research (March 11, 2016).
- Faculty of **Law** organized International Conference on “Conservation of Bio-diversity & Sustainable Energy: Law & Practice”, held from 12-14, Feb, 2016.
- Department of **Mathematics** organized International Workshop on “Operator Spaces” December 7-9, 2015.
- Department of **Mathematics** organized International Conference entitled “14th Discussion Meet on “Harmonic Analysis” December 10-12, 2015.
- Department of **Mathematics** organized International Conference on Recent Advances in Optimization Theory and Applications (RAOTA), January 30-31, 2016; jointly organised with Mathematical Programming Group, Delhi and Department of **Operational Research**, University of Delhi.
- Department of **Mathematics** organized seminar on Indian Women and Mathematics on 2-4 April, 2016.
- Department of **Microbiology** organized Symposium on “Genome-wide screens for identification of host factors required for viral infections” by Dr. Rohit K. Jhangra, Department of Microbiology and Immunology, Albert Einstein School of Medicine, New York, USA on 28 March 2016.
- Faculty of **Music** organized the International Seminar titled “Changing Scenario of Performance Practice in Indian Music” was held on 15-16 March, 2016.
- Department of **Operational Research** organized International Conference on “Quality, Reliability, Infocom Technology and Business Operations” during 28-30 December, 2015.
- Department of **Operational Research** organized International Conference on “Recent Advances in Optimization Theory and Application (RAOTA-2016)” during 30-31 January, 2016.
- Department of **Operational Research** organized National Workshop on “Business Analytics and Intelligence: Industry-Academic Interaction, 4-5 March 2016.
- Department of **Persian** organized a two day International Conference entitled “The Sultanate Period and the Early Mughal Empire” on 3-4 September, 2015.
- Department of **Persian** organized Three day International Seminar entitled “Indo-Persianate Culture at Mughal Court (1556-1656) on 3-5 March, 2016.

- Department of **Philosophy** organized Seminar on “Experimental Philosophy and the Philosophical Tradition” by Prof. Stephen Stich, Rutgers University on 23 February, 2016.
- Department of **Physics and Astrophysics** organized Workshop on Electron Microscopy and Allied Techniques” on 21-23 December 2015.
- Department of **Physics and Astrophysics** organized Workshop on “Econophysics and Sociophysics” on 27 November-1 December 2015.
- Department of **Plant Molecular Biology** organized plenary lectures on National Science Day, 29 February 2016.
- Department of **Plant Molecular Biology** organized Workshop on “Advances in Molecular Biology & Biotechnology in March 2016.
- Department of **Political Science** organized Conference on “Law, Institutions and Political Philosophy” on 21-22 August 2015.
- Department of **Political Science** organized Workshop on “Interpreting Key Texts of Ambedkar for Contemporary India” on 18-27 February 2016.
- Department of **Psychology** organized Workshop on “Play Therapy” in March 2016.
- Department of **Punjabi** in collaboration with Sahitya Akademi, Delhi organized a one day National Seminar on the subject “Challenges to Punjabi Folklore and Culture” on 16 March, 2016.
- Department of **Sanskrit** organized Seminar on “The learning of Sanskrit Śāstras in the present University System” on 11-12 March, 2016
- Department of **Sociology**, Delhi School of Economics organized 3<sup>rd</sup> Workshop on Climate Change on 20-21<sup>st</sup> January 2016.
- Department of **Sociology**, Delhi School of Economics organized Prof. D.S. Kothari Memorial Lecture by Prof. Veena Das, John Hopkins University on “What Does Ordinary Ethics Look Like? Reimagining Everyday Life” 29 July 2015, Delhi School of Economics.
- Department of **Statistics** organized a Seminar on “SuDoKu Puzzles” – A Combinatorial Marvel” by Prof. Bikas Sinha, Indian Statistical Institute, Kolkata on 5 June, 2015.

## **Incubation Centres at the University**

### **A. Electropreneur Park**

The University under the aegis of the Ministry of Electronics and Information Technology signed a MoU with Software Technology Park of India (STPI) and India Electronics and Semiconductor Association (IESA), and set-up an Electropreneur Park. The first of its kind Electropreneur Park to support start-ups in electronic system design and manufacturing (ESDM) has been established at South Campus of the University. The main objectives of the Park are:

1. Creation of holistic eco-system for encouraging R&D, innovation, Entrepreneurship in the ESDM sector in India.
2. Enabling creation of Intellectual Property within the country for maximizing the domestic value add and diminishing the external dependence in mass consumption electronics products.
3. Provide assistance during prototyping, development and commercialization for the products produced through the scheme for India and other growth markets.
4. Creation of employment at various levels.
5. Creation of long-term partnership with strategic sectors.

### **B. Technology Business Incubator**

The incubator has been set up in collaboration with Ministry of MSME at Design Innovation Centre, Cluster Innovation Centre has been established to encourage Entrepreneurs/Incubatees to try out their innovative ideas (processes and/or products) at the laboratory or workshop stage and beyond.

### **C. Centre for Entrepreneurship and Career Oriented Programs (CECOP)**

The Centre has been set up to address the Career oriented programs to impart skill training to both teachers and students from various institutions of the University of Delhi.

### **D. Innovation & Entrepreneurship Development Centre (IEDC)**

Acharya Narendra Dev College, University of Delhi has set up this Centre sponsored by Department of Science & Technology, Govt. of India to develop an entrepreneurial culture among the academic institutions.

### **E. Incubator in collaboration with Ministry of MSME.**

This incubator has been set up at Atma Ram Sanatan Dharma (ARSD), College of the University.

## **Academia-Industry Linkages**

Cluster Innovation Centre (CIC) of the University has signed MoUs with STPI, PHD Chamber of Commerce, IIT Bombay and National Thermal Power Corporation (NTPC). CIC has also signed MoU with TATA Power Delhi Distribution Limited to address problems in the areas of demand, automation, data analysis and advanced metering infrastructure. Students from CIC have been sent to various institutes like DRDO, NIF, BARC, NBRC, IIT Mumbai, FMS Delhi, IIM Bangalore, leading national dailies like The Hindu etc. CIC is jointly working with the Ministry of Railways, Government of India towards development of a Train Punctuality Index (TPI) and real-time monitoring system on measuring train network performance using IT and mathematical modeling.

## **University Lecture Series**

University Lecture Series - A lecture on “Mexico in the Twenty First Century” by H.E. Melba Pria, Ambassador of Mexico in India/ Sri Lanka/ Bangladesh/ Nepal and Maldives on 22<sup>nd</sup> September, 2015.

## **Memoranda of Understanding with Foreign Universities**

To enrich its academic inputs and experiences, the University of Delhi has maintained its tradition of entering into academic collaboration with premier institutions. In its endeavour, the University has signed up for academic and research collaborations with many institutions globally. In the reporting period, MoUs and Agreements include:

1. National Tsing Hua University, Taiwan
2. M.V. Lomonosov Moscow State University, Russia
3. University of Jordan, Amman, Jordan
4. Isra University, Amman, Jordan
5. IDC, Herzilya, Israel
6. The Hebrew University of Jerusalem, Israel
7. Ben Gurion University of the Negev (BGU), Beer Sheva, Israel
8. Russian State University for the Humanities, Moscow, Russia
9. Graduate School of Language and Culture/School of Foreign Studies, Osaka University, Japan
10. University of Tokyo, Japan
11. The Georg-August-Universitat Gottingen, Germany
12. University of Wuppertal, Germany
13. King's College London
14. University of Wurzburg, Germany
15. University of Leiden, Netherlands
16. University of Pecs, Hungary
17. University of Turin, Italy

## **Digital Initiatives**

### **Campus Connectivity**

- Wi-Fi enabled campus and colleges
- NKN connectivity
- Robust ICT network spanning over campus and colleges.
- Many University processes have been digitized including examination hall tickets/admission tickets, examination date sheets, online submission of internal assessment marks by colleges, online results.

### **Electronic Resources of the Library**

The DULS continued to strengthen the accessibility of electronic resources to the users. There are 48 electronic databases in different subjects and disciplines that are available to the user community of the University.

## **Equal Opportunity Cell Initiatives**

- The University organized International Educational Excellence Programme under which students with disabilities were sent to King's College London, University of Edinburgh, and South Korea.
- The University has started to provide smart phones and smart canes to visually impaired students through the Government of India, Assistance to Disabled Persons Scheme.

## **Placement Activities**

This year, attractive annual packages were offered to students registered with the Central Placement Cell (CPC). Leading organizations of international and national repute partnered with University of Delhi for recruitment and internships through the Central Placement Cell. More than 35 companies conducted On-Campus Selection Drives at both North and South Campus. More than 1500 students were shortlisted with job offers from different companies and 1100 students got employment in various public and private sectors with handsome salary packages.

## **Skill Enhancement Initiatives**

The University is actively involved in creating skilled manpower for industry requirements at various levels under the scheme Deen Dayal Upadhyay Centres for "Knowledge Acquisition and Upgradation of Skilled Human Abilities and Livelihood (KAUSHAL)". Various University Colleges are working towards this direction. The University organized a summer training session in Laboratory Research where 68 undergraduate students were trained in laboratories of the University. The exposure proved to be extremely beneficial for their future in research.

## **Social Outreach**

The University is also very committed to its Social Outreach initiatives. It has set up a Community Development Cell. Under this Cell, the University has adopted five villages -Jagatpur Shahdra, Jharoda Majara Burari, Mukundpur, Badarpur Khadar and Bakiabad. The specific accomplishments include community based initiatives for an augmentation in the basic infrastructure related to transport, water, sanitation and work towards addressing the problems relating to sanitation and waste management; creation of sustainable health services through the establishment of Mohalla Clinics and mobile van; organisation of regular health camps. The Unnat Bharat Abhiyan is another initiative that is working towards comprehensive rural community development through creation/strengthening of community based groups like women's groups, self-help groups, youth groups, cooperatives etc. and promoting awareness generation on relevant themes/subjects like hygiene and sanitation,

health, nutrition, women's safety, gender equality, women's empowerment, micro credit and RTI among others.

## **Sports Distinctions**

### **Participation of students in Olympics**

Three students of University of Delhi Colleges have been selected for participating in 2016 Summer Olympics in Rio de Janeiro, Brazil.

- Apurvi Chandela (Jesus & Mary College) – 10 metre Air Rifle,
- Lalit Mathur (Guru Teg Bahadur Khalsa College) – 4x400 metres Relay Race
- Manika Batra (Jesus & Mary College) – Table Tennis, Women's singles

### **North Zone Inter- University Table Tennis (M&W) Tournament**

The Tournament was organized in the month of December 2015 in which 48 Teams of Men and 43 Teams of Women participated in the Tournament. The Tournament matches were played at Multipurpose Hall, University of Delhi. University of Delhi emerged as the Winner of North Zone Inter University Table Tennis (M) Tournament beating Punjab University, Chandigarh in the Final Match of the Men Section. University of Delhi also emerged as the Winner of North Zone Inter University Table Tennis (W) Tournament beating University of Allahabad, Allahabad in the Final Match of the Women's Section.

### **Outstanding Sports Honours / Distinctions**

- Mr. Akhil Sheoran of University of Delhi won Bronze Medal in **28<sup>th</sup> World University Games 2015** held at Gwangju, Republic of Korea from 3-14 July, 2015.
- Ms. Apurvi Chandela of University of Delhi secured Fourth Position in **28<sup>th</sup> World University Games 2015** in Women's 10m Air Rifle Shooting held at Gwangju, Republic of Korea from 3-14, July, 2015.
- Mr. Ishan Goel of University of Delhi won Gold Medal in **13<sup>th</sup> Asian Championship 50m Rifle 3 Position Junior Men Team** held at Kuwait from 1-12 November, 2015.
- Mr. Ishan Goel of University of Delhi also won Silver Medal in **13<sup>th</sup> Asian Championship 50m Rifle Prone Junior Men Team** held at Kuwait from 1-12 November, 2015.
- Mr. Yogesh Gautam of University of Delhi won Gold Medal in **Asian Youth Chess Championship** held at Suwon, Korea from 3-11 August, 2015.
- Mr. Yogesh Gautam of University of Delhi also won Silver and Bronze Medal in **Commonwealth (Under 18 years) Chess Championship** held at New Delhi from 22-30 June, 2015.
- Ms. Pooja Tokas of University of Delhi won Silver Medal in **16<sup>th</sup> Senior Women National Boxing Championship** held at Bongaigaon Assam from 27<sup>th</sup> October to 18<sup>th</sup> November, 2015.
- Ms. Heena Tokas of University of Delhi won Bronze Medal in **16<sup>th</sup> Senior Women National Boxing Championship** held at Bongaigaon Assam from 27<sup>th</sup> October to 18<sup>th</sup> November, 2015.
- Ms. Shubh Gulati of University of Delhi Participated in **20<sup>th</sup> Asia Cup Hiroshima International Soft Tennis Championship**, Japan from 11-13 March, 2016.
- Ms. Yogita Vohra of University of Delhi Participated in **5<sup>th</sup> IKF U-23, Asia-Oceania Korfball Championship** held at Taiwan (Chinese Taipei) from 26<sup>th</sup> July to 2<sup>nd</sup> August, 2015
- Ms. Monika of University of Delhi Participated in **5<sup>th</sup> IKF U-23, Asia-Oceania Korfball Championship** held at Taiwan (Chinese Taipei) from 26<sup>th</sup> July to 2<sup>nd</sup> August, 2015.

### **Other important Sports Honours**

- Sixty Two (62) players brought laurel to University of Delhi in North Zone and **All India Inter-University Tournament** (M&W) as Gold Medal/s in Badminton (W), Basketball (W), Boxing (W), Chess (M/W), Kho-Kho (W), Shooting (W), Squash Racket (M), Table Tennis (M&W), Taekwondo (W), Tennis (W).
- Ninety Eight (98) players won Silver Medal/s in North Zone and **All India Inter-University Tournament** in Aquatics (M&W), Baseball (M&W), Basketball (M), Cricket (M), Football (W), Gymnastics (M&W), Judo (W), Shooting (M), Taekwondo (W), Wrestling (M).
- Forty Eight (48) players won Bronze Medal/s in North Zone and **All India Inter-University Tournament** in Aquatics, (M), Archery (W), Boxing (M&W), Chess (M/W), Gymnastics (W), Judo (W), Kho-Kho (M), Shooting (W), Squash Racket (W), Taekwondo (M), Tennis (W), Wrestling (M&W).

### **Team Championship in All India Inter University Tournament**

- University of Delhi Shooting (M&W) got Team Silver Medal in **Overall Championship Shooting** (Men & Women) in **All India Inter University Shooting** (M&W) Championship 2015-16.
- University of Delhi Gymnastic (W) got Team Bronze Medal in Gymnastic Rhythmic in **All India Inter University Gymnastic (W) Championship** 2015-16
- University of Delhi Aquatic (W) got Team Bronze Medal in **All India Inter University Aquatic (Diving) Championship** 2015-16.

## **Infrastructure**

Since suitable infrastructure is critical for academic work, the University has been striving to resolve the problem of shortage of space.

### **North Campus**

The following construction work has been completed:

- Lecture Hall Complex for Arts Faculty/Arts & Social Science building.
- Renovation (Civil/Electrical/AC work) of P.G. Women's Hostel.

### **North Campus**

The following construction work is in progress:

- Construction of vertical extension of Zoology Department.

### **South Campus**

The following construction work is kept on hold due to pending permissions from different civics agencies such as Forest Department and South Delhi M.C.D.

- Construction of academic building for Faculty of Management Studies
- Construction of Hostel for Research Scholars
- Horizontal Extension of Electronic Science Building
- Horizontal Extension of Life Science Building

## GENERAL FACILITIES AND PROGRAMMES

### DEAN STUDENTS' WELFARE

#### Major Activities

**Open Days:** Ten Open days were organized in the North Campus (Conference Centre) to guide students in the process of admission. Altogether, more than 30,000 students and parents attended. The aspiring candidates and their parents showed a high degree of enthusiasm and participation during the Open Days.

**Help Desk:** A Student Help Desk for undergraduate admissions was set up at Dean Students' Welfare Office, Conference Centre. This step was initiated to eliminate undesirable elements from disseminating wrong/ inadequate information to the aspiring candidates. These help desks were in operation for more than a month in the Conference Centre.

**Orientation Programme for International Students:** The office of Foreign Students Registry (FSR) was responsible for the admission, study and secure stay of enrolled foreign nationals in University of Delhi during 2015-2016. Throughout the year, counselling was provided to those who needed it. Network and communication was maintained with academic institutions to resolve the problems of students. The office also provided and facilitated spaces for cultural activities for students. As many as 40 students participated in a programme organized by Vishwa Yuvak Kendra (International Youth Centre), New Delhi. The focus of the meet was on the nation building processes and international communities. The Korean cultural festival was facilitated at Hindu College and more than 400 Indian and foreign nationals attended it. Financial help was extended to International Students Hostel to organize its annual night. There was a huge participation of students in it. Throughout the year, guidance was provided to the Foreign Students Association of Kirori Mal College and the Deputy Dean also participated in its activities.

#### Admission Activities

##### Undergraduate Admission Co-ordination

The Dean Student Welfare Office was involved in the publishing of the University Information Bulletin for admission to all categories (Gen/OBC/SC/ST/PwD) both in English and Hindi, as also the data analysis of the OMR forms (online/offline). Students of all categories Gen/SC/ST/OBC were allowed to register through an online OMR registration form. The PwD Candidates were provided separate additional facilities related to their admissions. The bulletin of information was available throughout the admission process @ Rs. 100 each. The same could be downloaded free of charge from the University website for all categories of candidates.

In order to address the admissions related grievances of the candidates belonging to SC/ST/OBC and PwD category, a committee was set up with Dean Students' Welfare as its chairperson.

#### Central Placement Cell Activities

The University has a Central Placement Cell to arrange and facilitate employment opportunities for the students pursuing under-graduate, post-graduate and Ph.D. studies in all the constituent colleges and departments of the University. The academic year 2015-16 was the eighth year of its working after its inception in the year 2008. The total number of students registered exceeded 16000, included internship registration. This year a total of 35 companies were short listed to carry out On-Campus Selection Drives at North & South Campus. More than 1500 students were shortlisted with job offers from different companies and 1100 students finally got employment in various public and private sectors with good salary packages. This year showed a significant change as some



corporates also showed interest in offering jobs to post-Graduate & Ph.D candidates. Along with the regular CPC activities, experts from different fields were invited to interact with 1<sup>st</sup> and 2<sup>nd</sup> year students for providing them specialized career guidance under the Capacity Enhancement Programme. These workshops enabled our students to interact with professionals to enhance their basic skills pertaining to CV writing, facing interviews, self-assessment and self-employment/entrepreneurship.

**Internship Programmes:** Students from 1<sup>st</sup> and 2<sup>nd</sup> years from different colleges were sent to various companies as interns to derive first hand information procurement and experience with companies. For this purpose, different companies were invited to register with the CPC. This year many companies visited the CPC and short listed a number of candidates for Summer Internship. Among the many companies, Space Technology and Education Pvt. Ltd, ABP News Network Limited and Vani Prakashan and Car 24 Service Pvt. Ltd. were the prominent companies which offered internships.

**Placements:** This year a sizable number of students got job offers from companies like Wipro, SRF Ltd, etc. Annual packages up to 6.00 Lakh were offered to the CPC registered students this year. Leading organizations of international and national repute have partnered with the University of Delhi for recruitment through the Central Placement Cell. The Central Placement Cell consistently builds liaison with business leaders and senior managers in reputed companies.

The Central Placement Cell acts on the advice of the Placement Cell Advisory Committee comprising of Dean Students' Welfare, Placement Coordinator, Deputy Deans Students' Welfare, placement consultant and placement coordinators from all the colleges and departments. The advisory committee monitors and guides the functioning of the Placement Cell. Diverse Capacity Enhancement Programmes were also organized for students to develop their leadership skills.

#### **Name of Companies**

1. Inter Globe Aviation Ltd.
2. Oji Holdings Corporation
3. Mind Shaper Technologies Pvt. Ltd.
4. Mohindra Comviva
5. EPAM Systems
6. Everest Industries Ltd.
7. Apps Discover Technologies P Ltd.
8. Sun Pharmaceutical Industries Ltd.
9. Zakoopi Infotech Pvt. Ltd.
10. Logistics Department Think & Learn Pvt. Ltd.
11. Perfect Public International School
12. Tata SIA Airlines Ltd.
13. Greymeter
14. Space Technology & Education Pvt. Ltd.
15. Mazars Advisory Pvt. Ltd.
16. Heritage School
17. Amazon Development Centre
18. United Health Group Information Services Pvt. Ltd.
19. Alma Mater Matters
20. Tech Mahindra
21. Teacher SITY
22. Azim Premji Foundation

23. Infosys Ltd., Electronics City,
24. Navig8 India Pvt. Ltd.
25. SRF Ltd.
26. Iris Publication Pvt. Ltd.
27. Innodata India Pvt. Ltd.
28. Vivo Mobile India Pvt. Ltd.
29. FRR Forex Pvt. Ltd.

**The Culture Council organized the following programmes in 2015-2016:**

The Kamalnayan Bajaj Memorial All India Inter University Elocution Competition was held on the 8<sup>th</sup> and 9<sup>th</sup> January, 2016 at Shiksha Mandal, Wardha (M.S.) in which Mr. Rahul Raj Aryan from Hindu College, University of Delhi participated and won the second prize. The Culture Council of the University supported his participation in the competition.

An Inter-College Ghazal Competition was organized by Shyama Prasad Mukherjee College in association with the Culture Council. The preliminary round of this event was held on 19<sup>th</sup> January, 2016 at Culture Council Office and final round on 29<sup>th</sup> January, 2016 at Shyama Prasad Mukherjee College. An Inter College Essay Writing Competition was held on 29<sup>th</sup> January at Hansraj College. The Culture Council also supported the “Vasant Utsav” - a programme of Faculty of Music and Fine Arts held on 12<sup>th</sup> February, 2016.

An Inter College Classical Dance and Ballet Dance Competition “Vande Mataram” was held on 18<sup>th</sup> February, 2016 at Deen Dayal Upadhaya College. The Culture Council has been organizing this event for past ten years. An Inter College Choir Competition “Songs of India” was held on 24<sup>th</sup> February, 2016 at Bhaskaracharya College of Applied Science in association with the Culture Council.

The Culture Council, along Hindu College organized an Inter College Hindi Play Competition held on 14<sup>th</sup> March, 2016 at Hindu College. An Inter College Singing Competition was also held on 19<sup>th</sup> March, 2016 at Sri Ram College of Commerce in association with the Culture Council.

## **DELHI UNIVERSITY COMMUNITY RADIO**

### **DUCR 90.4 MHz**

**Successful Development of Permanent Audio Link:** An Audio Link between the colleges of Delhi University and Delhi University Community Radio (DUCR) has been successfully designed and developed using intranet facility of Delhi University. With the help of this facility, students of any DU College may broadcast Radio programmes from their college without coming to the DUCR.

This system has been successfully installed and is being used by Indraprastha College for Women. This link was inaugurated by the then Vice Chancellor at a function held at I.P. College.

**Production of Episodes on Skill Development:** DUCR has been selected by the Ministry of Skill Development to produce episodes to create awareness on skill development amongst local community through the Community Radio and promote the Skill Training Programs of the Ministry.

DUCR has successfully recorded and broadcasted eight such episodes.

**Legal Awareness Series through Community Radio:** The Delhi University Community Radio (DUCR) has started production of episodes on Legal Literacy in association with Delhi State Legal Service Authority (DSLISA).

Eleven episodes on various topics such as FIR, RTI, Sexual harassment, Arrest, Bail, Remand, Victim compensation, Domestic violence, Senior Citizen Rights etc. These programmes are based on interviews by students with esteemed judges/ secretaries nominated by DSLSA.

**Urdu Programme titled Bazm-E-Urdu:** DUCR has started a programme “Bazm-E-Urdu” on a regular basis. This programme was inaugurated by Professor N.M. Kamal, Head of Urdu Department. This programme includes interviews, ghazals, mushairas and all the important events of Urdu zaban.

**Awareness on Psychological Disorders:** Six episodes of a special programme based on “Psychological Disorders” have been successfully produced and broadcast.

**Discussion on Mann Ki Baat Programme by Students:** Recently, DUCR has started a special programme based on discussion among students of D.U. Colleges on the P.M.’s Mann ki Baat. We are successfully recording and broadcasting these popular episodes.

**Journey of Voice:** Ten episodes of a technical programme titled “Journey of Voice from Microphone to Radio Receiver” have been successfully produced and broadcast. This episodes facilitate the understanding of radio broadcasting.

**Special Episode on Digital India:** Episodes are being produced on various aspects of the Digital India Programme launched by the Government of India in order to create a basic understanding about the same.

**Organisation of a Certificate Course:** A certificate course on Radio Broadcasting was conducted by DUCR at Ramanujan College, University of Delhi. 22 students successfully completed the course and received the certificate. More DU colleges have shown interest in a similar course.

#### **Participation of DUCR in various seminars and workshops**

The Consultant of DUCR attended the 6<sup>th</sup> National Community Radio Sammelan at Vigyan Bhavan. DUCR Volunteers also participated in a regional seminar held at Pune.

### **DELHI UNIVERSITY LIBRARY SYSTEM**

The Delhi University Library System has undertaken several measures to revamp the Library and the information services provided through its 34 constituent libraries. This has been in keeping with the newly revised Ordinance XVI. A brief listing of the same is given below:

#### **Print Resources**

The Library System added 20,365 volumes of books/periodicals to its collection. The total collection as on 31-03-2015 is 16,33,823 volumes. The current Periodicals Subscribed by DULS are 1296.

#### **Electronic Resources**

The DULS continued to strengthen the accessibility of electronic resources to the users.

There are 48 electronic databases in different subjects and disciplines that are available to the user community of the University. These are:

1. ABI/INFORM Complete
2. Academic Search Premier

3. ACM Digital Library
4. American Geophysical Union Journal
5. American Phytopathological Society
6. American Society for Micro-biologist
7. Anthrosource
8. Business Source Premier
9. Capitalism, Nature, Socialism
10. Capitalline Plus
11. Chicago Manual of style
12. CLA Plus
13. Credo (Formerly Xreferplus)
14. Ecolit (Abstract Database)
15. e-Jurix
16. Emerald Management Extra
17. Encyclopedia of Britannica
18. Encyclopedia of Cyber Crime
19. Encyclopedia of Law Enforcement
20. Georef with Geo Science World
21. House of Commons British Parliamentary Papers
22. Humanities International Complete
23. IEL Online
24. India stats
25. Indianjournals.com
26. ISI Emerging Market – CEIC Asia
27. Keesing's World News
28. Legal Pundits
29. Lexis Nexis
30. LISA
31. LNCS
32. Making of Modern Law
33. Manupatra
34. Nature Publishing
35. New Palgrave Dictionary of Economics
36. New York Review of Books
37. Omnifile Full Text
38. Oxford Dictionary of National Biography online &  
Grove Art Online
39. Sage Online

40. Science Direct
41. Science Magazine
42. Scopus
43. Soc Index with Full text
44. Statesmen's Yearbook
45. Proquest Dissertation and Theses Full Text Database
46. Westlaw India
47. World Bank e-Library
48. WTO e-library

### **Audio Book Resources and Braille Library**

The Braille Library is actively engaged in supporting teaching, learning and research for the visually impaired students and faculty members. It has 3 audio book production studios, 2 high capacity Braille embossers, network of 23 latest computers with softwares like Sigtuna, Jaw, Dexbury, Leap Office etc. There are 1,697 audio books, 1,707 Braille books, 1,672 e-text, etc. The entire collection of audio books and e-text has been made available online on a DUCC IP range in last academic year and is accessible via ID and password at <http://bl.du.ac.in>. The library is regularly used by visually impaired students enrolled in the University. Presently 220 members are enrolled in the library. The website of Braille Library has large number of hits for downloading accessible materials, it is circulated 1475 books on CDs.

### **USER SERVICES**

#### **(i) DULS—Website**

DULS-Website which includes the catalogue of selected libraries (OPAC) a provision of e-referencing, A-Z list of E-journals, Online Information Literacy Tutorial, Subject Portal, Ask your Librarian, access to electronic resources including open access resources and several other user friendly features, is in operation. Till date the website has been viewed by 5,83,396 users.

#### **(ii) Digital Library**

The Library has digitized 14386 books out of copyright zone available in DULS and have been placed on the web for global internet accessibility using the Open Source Content Management System, namely, 'Dspace'. The URL is <http://library.du.ac.in/dspace>. The same is also available on Digital Library of India's portal.

#### **(iii) Information Literacy Programme**

DULS has initiated and regularly conducting Information Literacy Program since 2006. and organized a total of 137 Information Literacy programs in various departments and colleges of University of Delhi including 107 E-Resource Orientation programs, 15 Hands on Training Sessions, 15 Hands on One Day Workshops for Research Scholars in Social Sciences. In the current year DULS has conducted 8 information Library Programs in Departments/Colleges and in Conference Centre. 517 students including P.G., Research Scholar & Members have attended the program.

#### **(iv) Knimbus**

Presently there are 1,636 registered users from DU. In last one year there have been 1,591 logins, 3,886 searches and 2,271 articles down loads through Knimbus.

### **(v) Document Delivery Service**

The J-Gate @UGC Infonet provides article-level access for all the databases subscribed by the UGC-INFONET Digital Library consortium, about 5,200 open access electronic journals, and print journals subscribed by 30 University libraries designed as Inter-Library Loan (ILL) Centers of the INFLIBNET Centre. The interface provides hyper link to articles that are available electronically and accessible in a given University so that a user can access and download articles. For articles from journals that are not available electronically or are not accessible in a given University, the interface facilitates semi-automatic generation of ILL request directly from user(s) to the INFLIBNET Centre or to one of the ILL Centre as the case may be. DULS is one of the 30 designated ILL Centers for the services. We receive following advantage of J-Gate@UGCInfonet.

- a) Provides single window searching of all the electronic databases available through UGC-INFONET Digital Library Consortium.
- b) Provides seamless access to millions of journal articles available online offered by 13,290 Publishers.
- c) Provides access to massive database of journal literature, indexed from 45,339 e-journals with links to full text at publisher sites.
- d) Provides access to about 23,410 open access e-journals in full text, having over 9,425,618 open access articles.
- e) Article level searching for 917 print journals of DULS
- f) Availability of photocopies of print journal articles not available in DULS through Document delivery service.
- g) Utilize the Document delivery service by requesting other designated Universities to provide copy of the print journal articles.

As a designated ILL Centre of J-Gate@UGCInfonet, DULS is also shouldering many responsibilities. In lieu of electronic databases available through UGC INFONET Digital Library Consortium, worth about INR 1,00,000, DULS shoulders the responsibility of supplying photocopies of the articles requested through J-Gate@UGCInfonet to the scholars through out India. DULS being a large organization, having large collection of print and electronic information content mostly serves the information requirements of its users. Hence, there are very less requests for photocopies of the articles from DULS users to other Universities. However, as an ILL Centre, DULS is regularly supplying the photocopies of articles. Compared to only 686 requests from our scholars DULS has received 7,146 requests from scholars of other institutions.

### **HUMAN RESOURCES**

The training facility created in the Central Library for imparting training on 'Use of Computers in Libraries' has been conducting the training programme for the benefit of Library Staff of the University and College Libraries with the help of the resource Persons from DU Computer Centre.

### **Summer Internship**

DULS continued to engage students of Master's Programme in the Library & Information Science as summer interns @ Rs. 7,500/- per month 13 student have been given training in various Libraries during the period.

### **SEMINARS / CONFERENCES / WORKSHOPS / EXHIBITION**

**Training the Trainers:** Workshop on Information Literacy and Competency was organized by DULS on 16<sup>th</sup>-17<sup>th</sup> July, 2015. The workshop details are available at <http://: crl.du.ac.in>.

Mr. Rajesh Singh, Deputy Librarian was invited to deliver the following lectures:

Delivered lecture on “Managing Academic Integrity in Digital Environment” as a resource person at the 2<sup>nd</sup> Tecnia SRFLISIndia Summit-2015 International Conference on Grey to Green: Creating Sustainable & Corporate Social Responsibility Jointly organized by Technia Institute of Advanced Studies and Satija Research Foundation for Library and Information Science, during 11-12 April, 2015 at New Delhi.

Delivered a lecture on “Role of Information Literacy in School Libraries as a resource person on 13<sup>th</sup> April, 2015, in the workshop held and organized for Libraries and teachers by Faculty Development & Research Centre (FDRC), AWES Ministry of Defence, New Delhi.

Delivered Lecture on “Online Plagiarism Detection” as a resource person on 8<sup>th</sup> May, 2015 in the Faculty Enrichment Program on “Ethics in Home Science Research” organized by Lady Irwin College, University of Delhi.

Delivered invited lectures on the following topics:

- (a) “Untangling the Web for Scholarly Information” on 5<sup>th</sup> June, 2015.
- (b) “UGC-Infonet Digital Library Consortia: A Gateway to Scholarly Information” on 6<sup>th</sup> June 9, 2015.

In the Orientation Program on “Quality of Higher Education: Learning Process” held from 03.06.2015, organized by Human Resource Development Centre, Pt. Ravishankar Shukla University, Raipur, C.G. 492 010.

Delivered a lecture on “Assessment of Research Publication: Productivity and Impact” as a resource person on 15<sup>th</sup> June, 2015 in the Orientation Programme (OR-81) held from 8<sup>th</sup> June, 2015 to 4<sup>th</sup> July 2015, organized by Centre for Professional Development in Higher Education (CPDHE), University of Delhi, Delhi.

Delivered a lecture on “Plagiarism: What, Why and How to Avoid it” as a resource person on 19<sup>th</sup>-21<sup>st</sup> February, 2016 in SFEC-2016, 3<sup>rd</sup> International Congress of Society for Ethnopharmacology, organized by NCNR, PRSU, Raipur & SFE, India.

Dr. Tariq Ashraf, Deputy Librarian In-Charge attended as International conference of Asian Special Libraries under SLA, USA held in Seoul, South Korea April 22-24, 2015 and attended the three days International Conference COLLNET 2015 on “Webometrics, Informetrics and Scientometrics (WIS)” held on 26-28 November, 2015 at Institute of Economic Growth (IEG), University of Delhi, and Delhi.

Dr. Dharamveer Singh, University Librarian and Dr. Tariq Ashraf, Deputy Librarian attended the 61A ILA Conference on 12-14 March, 2016 held at Rajkot, Surestha University.

Publication by Library Staff

“Research Trends and Citation Pattern: A Study of Three Central Universities located in Delhi” Paper presented at COLLNET conference held at Ilmenau, Germany during September 2-5, 2014 P383-401.

“Equality, Inclusion & Empowerment through e-Governance: Leveraging and Repositioning Libraries” 4<sup>th</sup> Int. Conference of Asian Special Libraries (ICoASL 2015) held at Seol, South Korea April 22-24, 2015 P393 403.

## **ACTIVITIES IN OTHER MAJOR LIBRARIES**

### **Central Library (Including the Arts Library)**

The Central Library (including the Arts Library) has been able to add a collection of 4,740 volumes in the last financial year with a membership of 4,075 users and the circulation of 44,676 books.

The Internet access facility provided for exclusive use to research scholars at Research Floor in the Central Library is being utilized regularly by an average number of 25-30 scholars per day. Five new computer have been added. 50 new computers have also been added for students and staff.

### **Ratan Tata Library**

The Library has been able to add a collection of 4,004 volumes in the last financial year with a membership of about 2,505 users and the circulation of more than 68,000 books.

The RTL has augmented its computing facility and unique e-library with 86 terminals to access various resources and one High End server. The Library has also updated its website with more value additions.

The orientation programme for various departments with special reference to e-resources has been taken up.

### **Central Science Library**

The Central Science Library has been able to add a collection of 2,486 volumes in the last financial year with a membership of 3,375 users and the circulation of 2.30 Lakh books. The library has excellent setup of IT infrastructure for various IT related services. The Library continued to conduct the Information Literacy Programme and facilitated the e-mail service to its users. The Library has been able to provide the services to users of all faculties from science, social sciences and humanities. The library received and sent a number of documents / articles to and from different libraries in the country through JCCC. A number of computers and electronic equipments have been added to augment the computerized services by including the laser printers, LCD Printer, Scanners etc. It also has Books on CD's and DVD's.

### **South Delhi Campus**

The South Delhi Campus Library has been able to add a collection of 2,092 volume in the last financial year with a membership of 1,430 users and the circulation of about 28,735 books. The library has completed the computerization process by having the bibliographical data of books and holding data for bound volumes of periodicals. The Library has also upgraded its website, has set up an e-resource centre, placed extensive signages across the library, completed the bar coding of books and organized the orientation programme. The Library has CD-ROM, Supplementary Reading materials and previous years question papers in its digital collection. A dedicated reference desk for providing service to users is operational.

## **DELHI UNIVERSITY SOCIAL CENTRE CO-ED SCHOOL**

The Delhi University Social Centre Co-ed Secondary School is situated within the residential campus of Block-C, Maurice Nagar of the University Campus. Founded by a small group of voluntary women organizations in 1945, the school gets 95% aid from Delhi Government, and 5% from Delhi University since 1964. The University has provided a modern building for the school and also allocates an additional fund of Rupees 10-12 lakhs for contractual staff and infrastructure facilities every year. A Nursery section has been started in a recently allotted space, which is quite popular now. The school was upgraded from 8<sup>th</sup> to 10<sup>th</sup> standard in 2003. The school has strength of around 600 students. Recently the students have fared well in the Xth class examination with 100% pass percentage. No student got less than 'D' Grade, which is a commendable achievement. Enrollment of students is continuously increasing for the last 5 years, but due to shortage of space the school cannot accommodate more students. The University has been requested for additional building. This request is under process.

The following functions were celebrated during the session 2015-16:

Earth Science Week in the month of April



Independence Day  
Annual Day  
Children's Day  
Red Cross Day  
Sanvidhan Diwas from 26 November-25 January  
Republic Day  
Bhagat Singh's Martyrdom Day on 23.03.2016

The School has also received grant of Rs. 12 lakhs from Delhi University for the honorarium of the contractual staff and for infrastructure facilities.

### **Workshops and Seminars**

Parents were provided counseling for motivating them to send their ward to the school regularly and for enhancing their role in the education of their children.

As the school is co-educational and has pupils in the age group of 10-15 years, a guidance and counseling workshop for the girl child was arranged with the help of the Department of Social Work, Delhi University. The school also conducted a mock drill to create awareness of natural disasters like earthquake among students. It also organized a seminar on "Legal Literacy" on the 'Legal Literacy Day'. The students of the school also participated in Gandhiji's Martyrdom Day at "Gandhi Bhavan". The school participated in the "Flower Show" of Delhi University and won prizes in few categories.

## **DELHI UNIVERSITY SPORTS COUNCIL**

### **Major Activities**

Under the leadership of Prof. C.S. Dubey–Chairman, the Delhi University Sports Council organized the Delhi University Inter College competitions in 57 Games / Sports for Men & Women disciplines, followed by Coaching Camps and Selection of University of Delhi Teams for North Zone and All India Inter–University Tournaments for Men & Women Category. University of Delhi participated in **63** disciplines in North Zone and All India Inter–University (M&W) Tournament organized by Association of Indian Universities. A total of 616 players (M&W) represented University of Delhi in North Zone and All India Inter-University Tournaments. Besides Delhi University Sports Council organized the North Zone Inter-University Table Tennis (M&W) Tournament 2015-16, which was well organized and appreciated by all the participants.

### **North Zone Inter- University Table Tennis (M&W) Tournament 2015-16**

The Tournament was organized in the month of December, 2015 in which 48 teams of men and 43 teams of women participated. The Tournament matches were played at the Multipurpose Hall, University of Delhi. The University of Delhi emerged as the Winner of North Zone Inter University Table Tennis (M) Tournament beating Punjab University, Chandigarh in the final match of the men section. The University also emerged as the Winner of North Zone Inter University Table Tennis (W) Tournament beating the University of Allahabad in the final match of the women's section.

### **Outstanding Honors / Distinctions**

**Mr. Akhil Sheoran** of the University of Delhi won **Bronze Medal** in 28<sup>th</sup> World University Games 2015 held at Gwangju, Republic of Korea from 3-14 July, 2015.

**Ms. Apurvi Chandela** of the University of Delhi secured **Fourth Position** in 28<sup>th</sup> World University Games 2015 in Women's 10m Air Rifle Shooting held at Gwangju, Republic of Korea from 3-14, July, 2015.

**Mr. Ishan Goel** of the University of Delhi won Gold Medal in 13<sup>th</sup> Asian Championship 50m Rifle 3 Position Junior Men Team held at Kuwait from 1-12 November, 2015.

**Mr. Ishan Goel** of the University of Delhi also won Silver Medal in 13<sup>th</sup> Asian Championship 50m Rifle Prone Junior Men Team held at Kuwait from 1-12 November, 2015.

**Mr. Yogesh Gautam** of the University of Delhi won Gold Medal in Asian Youth Chess Championship held at Suwon, Korea from 3-11 August, 2015.

**Mr. Yogesh Gautam** of University of Delhi also won Silver and Bronze Medal in Commonwealth (Under 18 years) Chess Championship held at New Delhi from 22-30 June, 2015.

**Ms. Pooja Tokas** of University of Delhi won Silver Medal in 16<sup>th</sup> Senior Women National Boxing Championship held at Bongaigaon Assam from 27<sup>th</sup> October to 18<sup>th</sup> November, 2015.

**Ms. Heena Tokas** of the University of Delhi won Bronze Medal in 16<sup>th</sup> Senior Women National Boxing Championship held at Bongaigaon Assam from 27<sup>th</sup> October to 18<sup>th</sup> November, 2015.

**Ms. Shubh Gulati** of the University of Delhi participated in 20<sup>th</sup> Asia Cup Hiroshima International Soft Tennis Championship, Japan from 11-13 March, 2016.

**Ms. Yogita Vohra** of the University of Delhi participated in 5<sup>th</sup> IKF U-23, Asia-Oceania Korfball Championship held at Taiwan (Chinese Taipei) from 26<sup>th</sup> July to 2<sup>nd</sup> August, 2015

**Ms. Monika** of the University of Delhi participated in 5<sup>th</sup> IKF U-23, Asia-Oceania Korfball Championship held at Taiwan (Chinese Taipei) from 26<sup>th</sup> July to 2<sup>nd</sup> August, 2015.

**Sixty Two (62)** players brought laurel to University of Delhi in North Zone and All India Inter-University Tournament (M&W) with **Gold Medal/s** in Badminton (W), Basketball (W), Boxing (W), Chess (M/W), Kho-Kho (W), Shooting (W), Squash Racket (M), Table Tennis (M&W), Taekwondo (W), Tennis (W).

**Ninety Eight (98)** players won **Silver Medal/s** in North Zone and All India Inter-University Tournament in Aquatics (M&W), Baseball (M&W), Basketball (M), Cricket (M), Football (W), Gymnastics (M&W), Judo (W), Shooting (M), Taekwondo (W), Wrestling (M).

**Forty Eight (48)** players won **Bronze Medal/s** in North Zone and All India Inter-University Tournament in Aquatics, (M), Archery (W), Boxing (M&W), Chess (M/W), Gymnastics (W), Judo (W), Kho-Kho (M), Shooting (W), Squash Racket (W), Taekwondo (M), Tennis (W), Wrestling (M&W).

#### **Team Championship in All India Inter University Tournament 2015-16**

- The University of Delhi Shooting (M&W) Team won the Team Silver Medal in Overall Championship Shooting (Men & Women) at the All India Inter University Shooting (M&W) Championship 2015-16.
- The University of Delhi Gymnastics (W) Team won the Team Bronze Medal in Gymnastics Rhythmic at the All India Inter University Gymnastic (W) Championship 2015-16
- The University of Delhi Aquatic (W) Team won the Team Bronze Medal in All India Inter University Aquatic (Diving) Championship 2015-16.

**Faculty Strength: Permanent:** Director, Physical Education

### **Other Significant Information**

Thirteen (13) Sportspersons in Athletics, Judo, Shooting and Tennis were selected from the University to represent Indian Universities at the **28<sup>th</sup> World University Games 2015** held at Gwangju, Republic of Korea from 3-14 July, 2015. The names of the sportspersons are:-

**Shooting (M&W):** Ms. Apurvi Chandela, Ms. Aditi Singh, Mr. Akhil Sheoran, Mr. Harit Babbar, Mr. Ishan Goel, Ms. Maheshwari Chauhan, Ms. Prerna Gupta, Ms. Sajneet Kaur Rehal, Ms. Sanjana Sehrawat and Ms. Sarveshwari Kumari; **Judo (W):** Ms. Vanita; **Athletics (M):** Mr. Lalit Mathur; **Tennis (W)** Ms. Rishika Sankara.

Six (6) Sportspersons of the University were selected to be the part of the North Zone Cricket (M) Team which participated in **VIZZY Trophy “Inter Zonal Championship”**, five of them played in the first eleven and performed and their contributions helped the North Zone Cricket (M) to annex the VIZZY Trophy. The names of the Sportspersons are:- Abhishek Vats, Rohan Rathi, Manish Tehlan, Yogesh Kumar, Karan Dagar, and Rajesh Sharma.

## **DELHI UNIVERSITY WOMEN’S ASSOCIATION**

The Delhi University Women's Association (DUWA) is a social welfare organization which was registered under the Societies Registration Act XXI of 1860 (Punjab Amendment Act 1957) as extended to the Union Territory of Delhi, on 31st October, 1964. It was started by Dr. Durgabai Deshmukh, a social activist, a great visionary and the wife of the then Vice-chancellor Prof. C. D. Deshmukh with the vision of empowering deprived and under privileged women. DUWA aims to promote and undertake social, cultural, recreational, educational and economic activities for the benefit of the women, in and around the University.

### **Programmes and Activities**

**The Mind Body Centre:** Promoting the wellness of the women students at Delhi University is the prime objective of this Centre, which was inaugurated by Prof. Dinesh Singh, Vice-Chancellor of Delhi University in February 2014. As problems of the mind and body are interconnected, they need to be dealt with in a holistic manner through the expert intermediation of physicians, a naturopath and the counselor at the Centre. In addition to free consultation, the practice of yoga and acupressure techniques is also promoted by the Centre. Specialist doctors have been appointed for homeopathy and naturopathy treatment of the girl students and for the women employees of the University.

**Play Schools:** DUWA runs a pre-school by the name of **Usha Ganguly Sishu Vihar** and **Durga Bai Deshmukh Balwadi**, established in 1967 and 1966 respectively in order to promote the intellectual, emotional, social and physical development of children. The Balwadi is meant for children from the economically weaker sections, where they are given free nutrition. There are about 210 children enrolled in both the schools.

**Sahyog:** The Sahyog programme helps school students of standard I-XII from the neighborhoods with the objective of improving their academic performances. In this tuition support programme, the children are served nutritious snacks and health drinks. Classes are held six days a week from 3-5 pm., and there are about 30 children enrolled in this programme.

**Vaatsalya:** This childcare programme is meant to support the working mothers from Delhi University with the objective of reducing their stress related to the well-being of their children. This day-care facility is for the age group of 6 months to 6 year old children. There are 50 children admitted to this facility.

**Women's Hostels:** DUWA established the working women hostel Sri Sadan to commemorate the International Women's year in 1975 and for the benefit of the single women teachers of Delhi University and affiliated colleges. The other two hostels, Old DUWA Hostel and New DUWA Hostel provide accommodation to the M.Phil. and Ph.D. students of Delhi University. There are about 37 residents in the hostels with a full-time warden.

**Drishti:** DUWA members have made significant contributions through the Drishti Programme by addressing the needs of the visually challenged students of Delhi University. Members read out and record lessons, arranging study materials and provide emotional support to the visually challenged persons.

**Jagruti:** Recognizing the growing incidents of cancer among women this programme strives to spread awareness through organizing lectures, discussions, screening camps, street plays competitions and other activities among the students of Delhi University.

**Souvenir Shop:** The souvenir shop was launched in November 2014 to commemorate DUWA's Golden Jubilee Celebration. Inaugurated by Prof. Dinesh Singh, the Vice-chancellor of Delhi University, the primary purpose of this initiative is to promote the DU brand and to simultaneously inculcate a sense of pride and belonging amongst the students and other members of the DU community. The design and sale of the souvenir items is being managed by DUWA members. There has been a great demand for the some souvenir items like folders, sweat shirts, bags, pens, key chains, mugs, etc.

**Computer Literacy Programme:** In this a four-month computer course which is conducted to impart the basic knowledge that includes MS-Word, Excel, PowerPoint, Access and Internet. The aim of this programme is to help girls to acquire basic computer skills.

**Language familiarization Programme:** DUWA is taking the initiative of conducting free short term language familiarization courses for DUWA members, DU staff, faculty and students. The programme started with a four-five months course of Chinese Language & German Language.

Chinese Familiarization Course: February, 2015 to August, 2015

German Familiarization Course: September, 2015 to February, 2015

DUWA also provides library facility for hostel residents and for all DUWA Members. It also conducted several environmental awareness programmes and workshops, besides arranging sports events for the children and members.

#### **Some major activities during the year 2015-2016:**

An Orientation Programme for the parents of the newly admitted children of UGSV & DDB Schools was held on 18<sup>th</sup> April, 2015. DUWA also conducted a "Public Lecture on Diabetes Prevention" on 6<sup>th</sup> of July, 2015. The 31<sup>st</sup> of July, 2015 was celebrated as Monsoon Get-Together during which Certificate of Chinese Language Course was given to the students. A special Demonstration & Interaction shown by Yoga Expert on "Power Yoga".

"Self-Enhancement Workshop" was organized on 12<sup>th</sup> September, 2015 .

Some special components included Stress Management; Power of Positive Thinking; Confidence Building; and Meditation.

On 26<sup>th</sup> February, DUWA also participated in the Delhi University "Annual Flower Show" and put up different stalls such as food-court, mind body centre facility and souvenir shop. An Environmental Awareness Programme by

Jagriti Sub-Committee was held on 12<sup>th</sup> March, 2016, wherein college students participated in big number. The 28<sup>th</sup> of March was celebrated as the “Graduation Day” by the UGSV and the Balwadi School.

## DIRECTORATE OF HINDI MEDIUM IMPLEMENTATION

The Directorate of the Hindi Medium Implementation publishes high standard text books in Hindi, primarily on Social Sciences and Humanities for the benefit of under-graduate and post-graduate students with Hindi medium. Since its takeover by the University of Delhi in 1978, approximately 210 books have been published. During 2015-16, the Directorate published 10 new books and 3 revised books. It also published about 50,000 copies of the fast selling titles, such as, *Madhyakaleen Bharat part -1 and part-2, Azadike Baadka Bharat, Bharat ka Swatantrata Sanghrash, Prachin Bharat kaItihaas etc.*

The following eight new books were released on 15<sup>th</sup> January 2016 at the New Delhi World Book Fair at Pragati Maidan:

- |  |  |
|--|--|
| 1. Vyavsayic Sanniyum                    | Professor J.P Sharma and Dr. Sunaina Kannoja |
| 2. Tulnatmak Shasanaur Rajniti           | Dr. Asha Gupta                               |
| 3. Tulnatmak Sarkaraur Rajniti           | Dr. Asha Gupta                               |
| 4. Bisvi Shatabdika VishavItihaas Part-1 | Dr. Sneh Mahajan                             |
| 5. Bisvi Shatabdika VishavItihaas Part-2 | Dr. Sneh Mahajan                             |
| 6. Bharat ke Pramukh Bodh Tirth Sthal    | Dr. Priyosen Singh                           |
| 7. Raj se Swaraj                         | Dr. R.C. Pradhan                             |
| 8. Aadhunik Bharat ka Rajnitik Chintan   | Dr. Ruchi Tyagi                              |

Dr. Asha Gupta, Director, DHMI also published a few books in Hindi on Comparative Politics which are according to the new syllabus under the Choice Based Credit System approved by the University Grants Commission in 2015. These are:

1. Tulnatmak Shasan aur Rajniti (B.A Hons.semester-3)
2. Tulnatmak Sarkar aur Rajniti (B.A Prog. Semester-4)
3. Rajnitik Prakiriyae avum Sansthaein (B.A Hons.semester-4)

Dr. Asha Gupta also participated at various International Conferences and has presented and published the following papers/publications:

1. Presented a paper on “Fighting for Peace: the Gandhian Way” at the 57<sup>th</sup> Annual Convention of International Studies Association held at Hilton Atlanta Hotel, Atlanta, Georgia in USA from March 16-19, 2016.
2. Published a paper on ‘Emerging trends in private higher education in India: some reflections’ in *The India Higher Education Report (IHER)* for Centre for Policy Research in Higher Education (CPRHE), NUEPA, New Delhi by Routledge in 2015
3. ‘Reshaping Economic and Political Governance: Role of the BRICS’. In *Rwanda Governance Board Report on Democratic Governance* to be published by Routledge (forthcoming, 2016).

This year the Directorate achieved the highest record of sale of the books published. It was approx. to the tune of Rupees one crore and thirty lakhs, the highest so far. During 2015-16, the UGC has mandated various universities

all over India to establish Hindi Implementation Cells on the line of the DHMI to publish text books in Hindi/regional languages.

## **FOREIGN STUDENTS REGISTRY**

The international student community continued to show its interest in the University of Delhi for pursuing courses offered by it. For the academic year 2015-2016, the office of foreign students received 2638 applications. It included 636 applications of ICCR scholarship holders. In total 552 students, 238 female and 314 males were admitted. The University had on its role 1310 foreign nationals pursuing courses ranging from certificates courses to Ph.D. Programme in 2015-2016.

The office of Foreign Students Registry maintained close links with enrolled students, residential hostels, Embassies, Colleges, Departments and Institutions to ensure that international students did not face any problems pertaining to their academics.

Many cultural activities were also organized for students. There was participation in a meet organized by the Vishiva Yuvak Kendra (International Youth Centre). The financial assistance was provided to the International Students House to organize its annual meet. There was close involvement of Deputy Dean, with cultural and academic functions organized by the Foreign Students Association of Kirori Mal College.

## **GANDHI BHAWAN**

### **Major Activities and Achievements**

On 27 April 2015, an Interactive Session on 'Gandhiji and Youth' was organized. The speakers of the programme were Smt. Tara Gandhi Bhattacharjee, Chairperson, Gandhi Smriti and Darshan Samiti, Shri A. Annamalai, Director, National Gandhi Museum, Rajghat, New Delhi and Prof. Dinesh Singh, former Vice Chancellor, University of Delhi.

On 28 April 2015, a Bhajan Sandhya was organized in which Dr. Sita Bimbrahw, former faculty, Kamla Nehru College, University of Delhi sang Gandhiji ke Priye Bhajan.

On 15 May 2015, a film 'Mahatma Gandhi: The 20<sup>th</sup> Century Prophet' by A. K. Chettiar was screened.

On 29 May 2015, a Special Talk on 'Yoga and Ayurveda' by Dr. Laxmi Kant Tripathi, Ayurvedic Physician from Times of India Group was organized.

On 5 June 2015 the World Environment Day was celebrated and saplings were planted at the premises of Gandhi Bhawan. On the same day a Talk on 'Disaster Preparedness: Future Challenges' was also organized. Dr. A. K. Malik of Delhi Fire Servicespoke on 'Fire Safety during Disaster' and suggested safety measures and the need for education and preparedness on any eventuality of fire. Dr. Ritu Saxena, CMO, Department of Accident & Emergency, Lok Nayak Hospital, spoke on 'Pre hospital care in case of any disaster'.

On 21 June 2015, the International Yoga Day was celebrated. The programme started with a welcome address by Prof. Anita Sharma, Director (Hon. Director) Gandhi Bhawan followed by Yoga and Meditation sessions for all under the guidance of the Yoga Organizer, Gandhi Bhawan. Students, teachers and the non-teaching faculty in large number were present for the same. Professor Dinesh Singh, the former Vice Chancellor, spoke of the inner goodness and the relevance of yoga for everyone. A documentary 'Common Yoga Protocol' from the Ministry of Ayush was also screened. A presentation of 'Understanding the Asanas' by Mr. I. N. Raman, the Yoga Organizer of Gandhi Bhawan was organized, followed by an elaborative practical application of 'Pranayam' and breathing exercises by

Yoga guru Gopal Krishan. Gandhiji's favourite Bhajans and a special charkha spinning session by Dr. Sita Bimbrahw was also organised.

A series of programmes were organised by the Gandhi Bhawan through the academic year. On 6th July 2015, a film show on 'Maine Gandhi ko Nahin Maara' was screened in which University fraternity comprising of teachers, students and non-teaching staff along with general public was present. On 16th July 2015, a special talk on 'Understanding the Other Half: Engagement on Gender Sensitization' by Prof. Pamela Singla, Department of Social Work, University of Delhi was organized. On 21st July 2015, a workshop on 'Quilling Art' by Ms. Shikha Gupta, Hindu College, University of Delhi was organized and on the 10th August 2015, an Interactive Session on 'Creating an Inclusive Society' by Prof. Vikram Dutt, Prof. & Mentor, Department of Journalism and Mass communication, Delhi Metropolitan Education Institute, New Delhi was organized. A Quiz Competition on 'Gandhi' was organized on 14th August 2015 and a Special Lecture on 'Mahatma Gandhi and Railways' by Dr. Y. P. Anand, Former Chairman, Railway Board, Indian Railways, Govt. of India & Former Director, National Gandhi Museum, Rajghat, New Delhi was organized on the 24th of August 2015. On 7th September 2015, an Interactive Session on 'Know your Mind: An Interaction with Your Own Mind' by Shri Rajiv Ranjan, Research Scholar, Institute of International and Comparative Education, Northeast Normal University, Changchun, China was organized. On 26th September 2015, a Rangoli Competition was organized.

Gandhi Jayanti was celebrated on the 2nd of October, 2015 with a lot of enthusiasm. On the same day an inauguration of Graffiti wall depicting the life of Gandhiji took place. It was followed by a sarv- dharma prarthana. To mark this event, week-long programmes were organized, starting from the 26th of September, 2015. The programme was initiated with the organisation of a Rangoli competition with creative designs. The next day was the time of a Geeta Discourse in which Swami Shantiswarupananda of the Ramakrishna Mission, New Delhi had an interactive session. On the third day, a film *Gandhi My Father* was screened. On the same day Legal Counseling was arranged wherein a lawyer of Delhi State Legal Services Authority (DSLISA), Patiala House Courts listened to the problems of the participants and offered suggestive inputs. This is a regular program in Gandhi Bhawan.

The next event organized was a Special Talk on 'The Science and Art of Healthy Eating' by Dr. Neelanjana Singh, President, Indian Dietetics Association, Delhi Chapter and a well-known Nutrition Therapist. Exhibition-cum-Sale Counters were put up that day for Khadi products by Khadi Ashram, Kamla Nagar. Also a Book Stall was put up by the Gandhi Literature Center, National Gandhi Museum, Rajghat, New Delhi. A *Charkha Spinning Demonstration* was the main attraction on 29th September 2015. Many youngsters joined in learning spinning that day. This is also a regular program at Gandhi Bhawan and it attracts both the young and the old. Another event organized on the same day was an Interactive Session on 'Ayurvedic Acupressure for a Long and Healthy Life' by Ms. Madhavi Chakravarti, an Acupressure Therapist. She explained the use of pressure points to cure diseases. The next day a few events were organized simultaneously. *Blood Donation camp* by Baba Saheb Ambedkar Hospital was started in the morning and continued till the afternoon. In the *Dengue Awareness campaign*, pamphlets were distributed and people were made aware of keeping their surroundings clean. At that time a *Nukkad Natak* in Sanskrit was performed by the students of Hindu College. They covered themes like girls' education and cleanliness. The programme got very warm applause. The afternoon session had a two hour *Yoga and Meditation* session. The students of the Non Collegiate Women Education Board, Mata Sundari College presented *Shabad* and *Gandhi jike Priya Bhajan* were rendered by Dr. Prerna Arora. Prof. Dinesh Singh, Vice-Chancellor of the University delivered the "Gandhi Jayanti Message of Peace". Finally prizes and certificates were distributed to the participants of various events and to the volunteers. An exhibition and sale counter of books on Gandhiji was set up throughout this week by the Gandhi Book House, Gandhi Peace Foundation, New Delhi. This was the first time that week long events were organized in Gandhi Bhawan to commemorate the birthday of Mahatma Gandhi.

On 14th October 2015, Prof. Dinesh Singh, the Vice Chancellor, University of Delhi, delivered a Special Talk on 'Gandhiji aur Satya.' Prof. Ashum Gupta, former Director (Hon.), Gandhi Bhawan, University of Delhi was the

chair of the session. On 27th October 2015, an Anti-Tobacco Awareness Campaign was organized in which the resource person Dr. S. K. Arora, Additional Director-Health, Government of NCT of Delhi delivered a talk before interacting with the audience. On 28th October 2015, Dr. Sita Bimbrahw, former faculty, Kamla Nehru College, University of Delhi rendered Gandhiji ke Priye Bhajan. On 5th November 2015, a Special Talk on 'Homeopathy – Myths & Facts' by Dr. Meera Sharma, Homeopathy Consultant, Delhi University Women Association (DUWA) was organized. A visit was organized to Rajghat and National Gandhi Museum, New Delhi on the 14th of November 2015 and on 18th November 2015, Gandhiji ke Priye Bhajans were sung by Shri Sudhir Kumar. On 20th November 2015, a special talk on 'The Lure and Lore of Indian Spices' by Prof. Sushila Narsimhan (Retd.), Department of East Asian Studies, University of Delhi was organized. There was a Special Talk on 'Remembering Mahatma Gandhi in China: Special Issue of The Eastern Miscellany' by Shri Prashant Kaushik on the 30th of November 2015 and on the 8th December 2015, a Delhi University Archives Tour for the students was organized, wherein Dr. Amrit Basra explained about the Archives to a group of participants.

A shramdaan activity was organized from 7 – 11 December 2015 and on 16th December 2015, a rendition on Gandhiji's favourite bhajans took place in which Dr. Sita Bimbrahw, former faculty, Kamla Nehru College, University of Delhi was the artist.

On 20th December 2015, a Debate Competition on 'Satya hi Safalta ki Kunji Hai' was organized. On the same day 'Sushasan Diwas' was also celebrated in which an Interactive Session was organized on the topic 'Sushasan mein Dhyaan aur Yoga ka Mahatva.' On 22 December 2015, Dr. Ravi P. Bhatia, Member, Governing Body, Aditi Mahavidyalaya, delivered a Special Talk on 'Paryavaran aur Swasthya' and on 11th January 2016, a Meet for the Chinese and Indian Poets was organized. They shared their experiences over India-China Poetry session entitled 'Contemporary Chinese & Indian Poetry.' At the onset of the Meet, Prof. Anita Sharma, Director (Hon.) Gandhi Bhawan, welcomed the guests by highlighting that the organization of Author's Event was actually a fruition of efforts made to further enhance the "knowledge exchange" between India and China as emphasized in his speech by Prime Minister Narendra Modi while inaugurating the Gandhi Study Centre in Fudan University, China in May 2015. Indian poets were represented by Prof. Sukrita Paul Kumar, a noted poet, critic and academic who holds the prestigious Aruna Asaf Ali Chair at the Delhi University and Prof. Anil Kumar Rai, a noted Hindi scholar and formerly visiting professor of Hindi at Peking University, China. The Chinese poetry world was represented by Shu Ting, the harbinger of Obscure Poetry, Xi Chuan, one of the most celebrated contemporary Chinese poets and Lanlan, one of the most influential lyrical poets of the present time.

On 25th January 2016, a Documentary 'Gandhi ka Champaran' directed by Mr. Bishwajeet Mookherjee was screened. To pay homage to the Father of the Nation – Mahatma Gandhi, week-long events starting from 26 January 2016 were organized. These included the following:

26 January 2016: a Talk on 'Yoga for Psycho-somatic Diseases – Cervical, Sinus, Migraine, Hypertension, Obesity' was delivered by Mr. Indra Narayan Raman, Yoga Organizer, Gandhi Bhawan.

27 January 2016: a visit to Birla House and Teen Murti House was organized. On the same day, a street play 'Do Raaste' by Rang Manch Theater Society, Aryabhata College, University of Delhi.

28 January 2016: a session with Ms. Madhavi Chakravarti, Acupressure Therapist was organised in which consultation was given. On the same day, a Special Talk on 'Translation of Literary Work: Its Role and Impact' by Prof. Jiang Jingkui, Director of Center for South Asian Studies, Peking University, Beijing, China was organized.

29 January 2016: a Special Talk on 'Gandhiji and Women Empowerment' by Prof. H. P. Gangnegi, Head, Department of Buddhist Studies, University of Delhi was organized.



30 January 2016: Martyr's Day was commemorated in which a Sarva Dharma Prarthana Sabha was organized. On this occasion, students of Delhi University Social Center School, Maurice Nagar, CIE Basic Experimental School and Harijan Sevak Sangh, Kingsway Camp, Delhi performed prayer, bhajans and a play to pay homage to the Mahatma.

In the month of February, 2015, a Talk on 'Emotional Transformation' by Er. Sudhir Sharma was organized, which was well attended by the University fraternity and the general public. Besides, a Special Talk on 'Gandhiji's Satyagraha: Its Historical Significance and Contemporary Relevance' by Prof. Gita Dharampal-Frick, University of Edinburgh was organized. On the 22nd of February 2016, a conference entitled 'Remembering Kasturba Gandhi' was organized to mark the Matribhasha Divas. In this most of the papers were presented in Hindi. On the 29th February 2016, Gandhiji ke Priye Bhajan were sung by Dr. S. V. Esvaran, Emeritus Scientist, UNESCO DBT, Regional Centre for Biotechnology, Faridabad, Haryana and former Dean Academics, St. Stephen's College, University of Delhi.

The month of March, 2015 was also replete with diverse events. On 5th March 2016, a Study Tour was organized to Shahzad Rai Shodh Sansthan, Badaut, U.P. and the adjoining archeological sites. On 8th March 2016, a Book Reading session and interaction on the book 'Ba aur Babu' by Mukul bhai Kalarthi was organized and on the 11th March 2016, a talk on 'Mother Friendly Workplaces' by Dr. Rajiv Kumar Jain, Additional Chief Medical Director, Health & Family Welfare, Northern Railway, New Delhi was organized. On the 14th March 2016, a conference entitled 'Gandhiji aur Dharmanurag' was organised and papers were presented at this forum. On the 31st March 2016, games for kids were organized.

#### **Inter-institutional collaborations**

5th June 2015: To mark the World Environment Day, faculty participants of the orientation course, Centre for Professional Development in Higher Education (CPDHE), University of Delhi attended a special programme organised on the occasion.

2nd October 2015: Students of Non-Collegiate Women's Education Board, University of Delhi - Mata Sundari College performed shabad at Gandhi Bhawan.

5th November 2015: a talk on 'Homeopathy – Myths & Facts' by Dr. Meera Sharma, Homeopathy Consultant, Delhi University Women Association (DUWA) was organized.

20th December 2015: A Debate Competition on 'Satya hi Safalta ki Kunji Hai' was organized for the students of the Non-Collegiate Women's Education Board, University of Delhi.

#### **Conferences organized/ attended**

(i) 22 February 2016: A conference entitled 'Remembering Kasturba Gandhi' was organised to mark the Matribhasha Divas in which most of the papers were presented in Hindi.

(ii) 14 March 2016: A conference entitled 'Gandhiji aur Dharmanurag' was organized under the aegis of the Gandhi Bhawan.

#### **Any other significant information**

The following programmes/ activities were organized at the colleges under the auspices of the 'Gandhi Study Circles'. These were funded/ part-financed by Gandhi Bhawan:

**Hindu College:** The Gandhi Study circle, Hindu College, University of Delhi, celebrated Gandhi Jayanti by organizing a two day event on 6<sup>th</sup> and 7<sup>th</sup> October, 2015 in Hindu College, University of Delhi. An inter-college poem competition was held. ‘Gandhiji ke Priye Bhajan’ by Dr. Sita Bimbrahw, former faculty, Kamla Nehru College, University of Delhi, was also organized.

**Delhi College of Arts and Commerce:** The Gandhi Study Circle, Delhi College of Arts and Commerce, University of Delhi, organized a one-day program on ‘Gandhian Thought: A Ray of Hope in the Contemporary Time’ on 5<sup>th</sup> November 2015. The program started with a lecture-cum-discussion. Another event was Collage and Poster making competition on the ideology of Mahatma Gandhi in which students won prizes. The last event of the day was a movie show ‘Gandhi My Father.’

**Aditi Mahavidyalaya:** The Gandhi Study Circle, Aditi Mahavidyalaya, University of Delhi organized a two-day national workshop on the thoughts, ideology and the lifestyle of Mahatma Gandhi on the 20<sup>th</sup> and 21<sup>st</sup> November 2015. On the first day, a debate competition on the topic, ‘*Gandhi Ka Sampoorna Jeevan Samaanta aur Samrastaka Paryaya Hai*’ was organized. After that a Special Lecture on ‘*Gandhi ka Bharat Punragaman aur Gandhi Ki Jeevan Shaili*’ along with demonstration and training on spinning. The next day, a poster making competition on the theme, ‘*Samaajik Sudhar Aur Gandhi*’ was organized. A special lecture on *Gandhi Ki Anoothi Jeevan Shaili aur Bhartiya Paripekshaya* was also organized during this event. The Gandhi Study Circle, Aditi Mahavidyalaya again organized a two-day National Seminar on Mahatma Gandhi on February 19<sup>th</sup> & 20<sup>th</sup>, 2016.

**Janki Devi Memorial College:** The Gandhi Study Circle, Janki Devi Memorial College, University of Delhi, organized a seminar on ‘Respect vs. Tolerance’ by Prof. Apoorvananda and Prof. Dilip Simeon on 24<sup>th</sup> February, 2016. On the same day, the Study Circle also organized a photography competition.

**Aryabhata College:** The Gandhi Study Circle, Aryabhata College, University of Delhi, organized a talk, bhajan and charkha session on 8<sup>th</sup> March, 2016. Prof. Dinesh Singh, the then Vice Chancellor, delivered a talk on Mahatma Gandhi. Gandhi ji kepriye bhajans were sung by Dr. Sita Bimbrahw, former faculty, Kamla Nehru College, University of Delhi.

## **GARDEN COMMITTEE**

### **Development/Renovation of New Lawns and Gardens.**

- (i) Development of Lawn at C-9 Maurice Nagar
- (ii) Development of Lawn at D-14 Maurice Nagar
- (iii) Development of Lawn at C-1 Maurice Nagar
- (iv) Development of Lawn at C-17 Maurice Nagar
- (v) Development of Lawn at A-3 Chhatra Marg
- (vi) Development of Lawn at A-2 Chhatra Marg
- (vii) Renovation of Lawn at 23 Cavalry Line
- (viii) Renovation of Lawn at 38/12 Probyn Road
- (ix) Development of Landscape near parking, Faculty of Arts

### **Awards and Trophies**

The Garden Committee participated in the Annual Flower Show organized by the Indraprastha Horticulture Society, Delhi, and won the following trophies.

1. Vice-Chancellor’s Terrace Garden - Anish Foundation Rolling Trophy

2. Mughal Garden – Sri Manoranjan Kumar Rolling Trophy
3. Vice-Chancellor’s Residence Garden – IHS Rolling Trophy
4. Jawahar Gulab Vatika –Rupali Bhatnagar Rolling Trophy
5. Sir Shankar Lal Hall – Raghubir Laxmi Devi Memorial Rolling Trophy
6. Finance Officer’s Residence – Smt. Sunita Kumar Challenge Shield

### **Painting Competition for School and College Students**

A painting competition for college and school students under different age groups was organized on the 20<sup>th</sup> February 2016 from 10.00 a.m. to 1.00 p.m. at the Multipurpose Hall, Sports Complex, University of Delhi. Over 800 students from various schools and colleges participated in the painting competition.

### **58<sup>th</sup> Annual Flower Show - 2016**

The 58<sup>th</sup> Annual Flower Show was organized on 26<sup>th</sup> February, 2016 at Mughal Garden (in front of Vice-Chancellor's office), University of Delhi. Professor Anil Kumar Tyagi, Hon’ble Vice – Chancellor, Guru Gobind Singh Indraprastha University was the Chief Guest for the Flower Show. Various activities such as the Biological Quiz Program, and a display of stalls depicting various types of garden tools and plants were organized during this event. More than 25000 visitors visited the show. Almost 100 running cups/trophies and several cash prizes were awarded to the Malis/exhibitors.

The Delhi University Women’s Association displayed various items at the Flowers Show. These were really appreciated by the dignitaries and the visitors.

## **UNIVERSITY GUEST HOUSE**

The University Guest House continued to perform an important role in the functioning of the University. Besides the services that it routinely extends to its guests, special catering arrangements (Lunch/Dinner/High Tea) were provided to 19,878 persons during the said period on account of programmes like Conferences/Seminars/Meetings/Retirement parties/Get-Togethers etc. During this period 3193 Guests were provided food and accommodation.

## **INTERNATIONAL GUEST HOUSE**

The following improvements/infrastructure developments/new additions have been undertaken during the year 2015-16.

### **New facilities and amenities:-**

- Installation of Sixteen CCTV’s
- Installation of Lift.
- Purchase of ten Split Air Conditioners
- Wooden Paneling at Lounge
- Purchase of Two Led TV’s
- PVC flooring at Lounge
- Reconstruction of Ground floor Washrooms
- Replacement of Lounge lights into led

**Cleanliness Drive**

White-washing of six guest rooms carried out.

**Catering Arrangements:-**

Special catering arrangements were provided to 356 requests for Lunch/Dinner/Tea at Conferences/ Meetings/ Seminars and other events during the year 2015-16.

**Room Accommodations:-**

During the period, 1206 persons were provided accommodation and mess facilities. Most of the guests staying at IGH are foreign and all the guests have expressed immense satisfaction with the services/quality of food and the cordial behavior of the staff of IGH.

## **NATIONAL CADET CORPS**

Around 4500 boys and girls cadets were enrolled in the NCC Units of the University of Delhi in various colleges.

The following activities were organized centrally for the Units:

- Swachh Bharat Abhiyan
- No Tobacco Day 31<sup>st</sup> May, 2015
- Awareness Run Against Drug: 26<sup>th</sup> June, 2015
- Senior Citizen Day: 8<sup>th</sup> August, 2015
- Flag Hosting Ceremony: 15<sup>th</sup> August, 2015
- CM Rally : 15<sup>th</sup> August, 2015
- Cheshire Home Founder's Day: 7<sup>th</sup> September, 2015
- Rashtriya Ekta Diwas: 31st October 2015
- Remembrance Day Service: 9<sup>th</sup> November, 2015
- Blood Donation Camp: 22<sup>nd</sup> November, 2015
- Tree Plantation: 23<sup>rd</sup> November, 2015
- Disaster Management: 24<sup>th</sup> November, 2015
- 25<sup>th</sup> Yamuna Shramdan: 14<sup>th</sup> December, 2015
- Prime Minister's Rally: 27<sup>th</sup> January, 2016
- RDC: 26<sup>th</sup> January, 2016

There was excellent participation by cadets in all the centrally organised events of the University.

## **NATIONAL SERVICE SCHEME**

A variety of programmes were organized under the NSS Centre-University of Delhi by the volunteers of 62 colleges of the University in the session 2015-2016 besides organizing other activities in colleges. Some of the notable programmes are as follows:

- |                              |   |                   |
|------------------------------|---|-------------------|
| 1. Foundation Day            | : | 1 May, 2015       |
| 2. International Day of Yoga | : | 21 June, 2015     |
| 3. Pre RD Selection          | : | 7 September, 2015 |

4. NSS Day Celebration	:	24 September 2015
5. Celebration of Gandhi Jayanti	:	2 October 2015
6. Celebration of Ekta Utsav	:	29-31 October, 2015
7. Celebration of Constitution Day	:	26 November, 2015
8. Interaction session under Operation Sadbhavana	:	11 December 2015
9. Celebration of Swami Vivekanand's Birth Anniversary	:	12 January, 2016
10. National Youth Festival	:	12-16 January, 2016
11. Matdaata Mahotsav	:	14 January, 2016
12. Workshop on Digital India	:	25 February, 2016
13. NSS Special Camp	:	22-28 March, 2016

Capt. Parminder Sehgal, Programme Coordinator, NSS was felicitated by the Chief Electoral Officer, Delhi for her valuable contribution in organizing different competitions at college level during Matdata Mohotsav 2016. A Certificate of Recognition with memento was awarded in recognition of her valuable services to make Matdata Mahotsav a great success.

For implementation of the Digital India Scheme in the colleges affiliated to University of Delhi the Programme Coordinator, NSS has been designated as the Nodal Officer for the University of Delhi. It is for the first time ever in the history of the NSS Centre that a Special Camp was organized under the mentorship of Cap. Parminder Sehgal, by the NSS Centre during the mid-semester break of the University. As many as 200 volunteers from SRCC, Miranda house, LBC and Kalindi College worked in Kair and Mitrao village for various social sector schemes and awareness programmes.

### **NON-COLLEGIATE WOMEN'S EDUCATION BOARD (N.C.W.E.B.)**

NCWEB was established in September 1944 under the DU Act 1943. The Board facilitates the students to take part in some examinations without attending regular classes. NCWEB has emerged as an important academic option for the female students. The Board had started with only 3 students and at present it has 17500 students. They are studying UG courses in 13 Teaching Centres spread across Delhi. Apart from the UG centres, one PG Centre is situated in Tutorial Building, Arts Faculty. There are 11112 students in B.A. (Part-I, II and III), 6313 in B.Com (Part-I, II and III) and 851 in PG course Part-II & IV). 546 guest lecturers were appointed for this purpose. For PG students, 48 Associate Professors/Assistant Professors had been appointed as per the recommendation of their Heads of the Departments.

The students were given a chance to participate in debates, question answer sessions, creative writing and competitions in their respective teaching centres. All this was achieved within the short teaching span of fifty days of NCWEB teaching. Cultural activities like Mehendi demonstrations, painting, music sessions, and plays were also held to provide a glimpse of experience of college life experience to the participants. In order to develop a spirit of competition among the students, several inter-centre and cultural activities were organised. The glimpse of all these activities had been seen in the annual functions of the Board and teaching centres. On 24<sup>th</sup> April, 2015, the NCWEB e-magazine was launched. It comprises of various articles and creative writing pieces from thirteen teaching centres of NCWEB.

As far as the result of the NCWEB is concerned, the pass percentages in the UG courses are as under:

Course	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year
B.A. (Prog.)	84.25 %	81.50 %	84.33 %

B.Com                    81.18 %                    78.00 %                    80.47 %

The Board felicitated the UG students of 13 teaching centres who secured the first 3 positions, as also 15 students and 240 students respectively who secured 100 % & 90 % marks in B.A. (Prog.)/B.Com in a subject respectively, together with 40 students from M.A, who secured 75 % marks with a certificate.

The NCWEB has organized skill development classes in collaboration with NSDC for increased employability of NCWEB students, in Hospital Management, Hospital Billing and BPO training among others. This has helped to develop multiple skills as well as the personality of the participants, besides enhancing the confidence levels of the students to avail job opportunities. Around 94 students from B.A. (Prog.) and B.Com II and III years are enrolled in the aforementioned training programmes. Currently, these have been running successfully with an increased demand from more and more students who wish to procure skills.

Twenty Eight students of NCWEB were also trained by the ILFS (Skill Sector partner of NSDC) in their office in Okhla. They trained them in personality development, customer care and English language communication for facilitating their placement in companies which are marketing consumer items through the e-medium. Thirty students of NCWEB were offered the VC internship during summer of 2015.

In the year 2015, a placement drive was conducted by the Spicejet Company for the students of NCWEB and our students succeeded in getting around 50 percent of the job offers provided by them. Approx. 25 students of JDM got the job offers from Spicejet. NCWEB students also benefitted from the job offers provided by SuKam Company and 3 students of SGGSCC, NCWEB teaching centre got placement in Max Hospital, Saket in the domain of Hospital Management.

Financial aid was given to the needy students. The committee provided financial aid to 790 needy students out of the 950 students who had applied for it, at the rate of Rs. 3000/- per student. Around 442 books (free of cost) were also provided to the students during this year. With all these initiatives, the Board is taking every conceivable step to attain its goal of providing maximum educational opportunities to women candidates from all sections of society.

### **Teaching Centres of NCWEB**

These are located at: Bharati College, Hansraj College, Janaki Devi Memorial College, Jesus and Mary College, Kalindi College, Lakshmbai College, Maharaja Agrasen College, Maitreyi College, Mata Sundri College, PGDAV College, Guru Gobind Singh College of Commerce, Vivekananda College, SPM College, PG Teaching Centre.

## **OFFICE OF ALUMNI AFFAIRS**

A series of initiatives towards innovative Alumni services and a set of Achiever / Heritage milestones marked the year's enriched Alumni service portal.

A unique **Alumni Authors Library** AAL conceived by its adviser Prof. Sydney Rebeiro has been established with books, many of which are donor-autographed by eminent alumni like Dr. Karan Singh, MP, Shri Gopalkrishna Gandhi, Shri Navin B Chawla and Dr. S.Y. Quraishi, CECs, Shri Vinod Rai, CAG, Shri Amitabh Bachchan, Dr. Shashi Tharoor, Shri K. Natwar Singh, Dr. N. K Singh, Ms. Kishwar *Ahluwalia* Desai, Shri Nirmal Verma, Dr. Ramachandra Guha and Ms. Anuja B Chauhan. The library also has select published compilation/s of landmark Court judgments pronounced across decades by our world-eminent DU alumni jurists.

A first time integrated **Alumni Services e-Window** has consolidated all the frequently – sought **Alumni in Need** services with Forms, Certificates, Fee Schedules etc and a close coordination with the Exam Branch has resulted in

speedier deliverables. Over 700 alumni across four continents have been provided time-bound, 48 hour Response – services including customized counselling, guidance and support .

To fulfill the long felt need/s of alumni seeking further studies, career advancement and citizenship requirements in India and abroad, new measures this year encompass the first – ever **e-transfer** of Fees/Donations etc into Registrar controlled dedicated Bank accounts, the introduction of **e-Transcripts** and the updating of the **e-Master Lists** of records for immediate cross-referencing, thereby bringing our University within standard operating procedures (SOPs) worldwide.

Through active pursuance, the **Alumni Affairs Account AAAC** (begun at Platinum 1997, and virtually dormant since 2003) **has been revived** this year. This shall greatly benefit Alumni Services.

As many as 90 departments, centres and colleges now have (faculty) Core Coordinators (CCs) and Al Representatives for direct liaison with Adviser/Dean Alumni Affairs, while over 25 new micro / institution – based *Alumni Chapters* have received guidance and support.

Over 2000 fresh photographs coded *alpix* soft documents and an additional 1500 tracts, factsheets, file – folios etc spanning 10 broad sets of Corporate, Academic, Media, Sports, Culture, Professional, Legal, Literature, Civil Service and Eminent Public Persons *Resource Pools* (RPs) under the **Alumni Resource Bank** have been added in the year under review.

In heartwarming, classic revival of a tradition begun in Platinum Year 1997-1998, eminent alumni were invited to the Convocation 2015 and a large swathe of eminent alumni conveyed their “felicitations and blessings” to the fresh graduates .

#### **ACROSS – THE – BOARD SERVICES**

In addition, revised and enlarged lists of Alumni USA / UK / Canada / Africa / Mid East / Mumbai / Chennai Chapters , besides an updated **Very Eminent Alumni** VEA Short List have laid further foundation for a “*meaningful, fulfilling DU - Alumni Dynamic .*”

And an intensified *Reaching Out* has seen the DU **Alumni Global Database 2015** cross 45,000 names from all sources, up 30,000 since 2014. An updated proposed statutory framework for the Alumni Advisory Council **AAC** has also been submitted.

The statutory **DUAA** Membership continues to grow and DUAA elected representatives to The DU Court are: Dr. Anil Sardana , Advocates Gautam Banerjee, Michael Dias and Sanjeet Kumar Singh , media – expert Sidharth Misra, noted oncologist Dr. Gauri Kapoor, Hari Shankar Gupta, Surinder Kumar, Professor J L Gupta and Prof. Virendra Kumar Agrawal .

A major **Alumni Seminar** – cum – Fellowship Dinner was hosted by alumnus VC Prof. Dinesh Singh and organized by Dean, Academics Prof. Malashri Lal. The panel was chaired by His Lordship Justice Arjan K Sikri, alumnus double gold medalist and included Law alumnus Shri Kiren Rijiju, MoS, Govt. of India.

The updated DU Alumni **Directory** is ready to print, while the alumni **news magazine** edition three 2015 and edition four 2016 have been released. These include a brand-new, quick time **Alumni Fast Track**, evocative Nostalgia and Heritage Sections and a special *In Memoriam*, which pays affectionate tribute to some of our dear departed alumni .

The Office wishes to place on record its grateful appreciation for the consistent and inspirational support provided by our VC Professor Dinesh Singh. **We also extend a very warm welcome to our new Vice Chancellor Professor Yogesh K Tyagi**, a distinguished Legal Studies scholar from Columbia, JNU and South Asian University. We wish him great success in enriching and enhancing the academic and research environment of the University, while sustaining the integrity and intellectual autonomy of this great institution. We also express the fervent hope that with his inspired leadership, we will continue to strengthen the values embellished in our motto *“Towards a meaningful, fulfilling DU – Alumni – Dynamic”* and work towards encouraging the alumni to play meaningful role/s as enablers, mentors, motivators and sponsors in the entire gamut of DU’s dynamic life.

## **UNIVERSITY EMPLOYMENT INFORMATION AND GUIDANCE BUREAU**

The University Employment Information and Guidance Bureau (Employment Exchange, Delhi University) is rendering valuable services to students in the field of career guidance on employment opportunities and for attempting various public examinations. During the year, 1,29,713 candidates were registered through online services. With 5,178 vacancies which were received with 459 employers fielding requisitions, many candidates were placed.

The job fair for reputed firms/companies was also organized by the Directorate of Employment in two phases. The first phase was organized between 1st August and 8th August, 2015 at four Employment Exchanges i.e. (1) Kirbi place (2) R.K. Puram (3) Pusa and (4) Shahdara. The second phase was organized from 16th November to 9th December, 2016 at above mentioned Employment Exchanges as also at Tyag Raj Stadium. Approximately 2000 candidates, including 300 persons with disability were placed in these companies.

## **UNIVERSITY PRESS**

The University Press has taken various printing jobs, such as printing of degrees, mark sheets, answer books, prospectus, yearly review, annual reports of the University as also the Academic Council/Executive Council Minutes. It also undertook the printing of examination forms and several other items of the University and its colleges. Besides this, the binding of various records and registers of the University was also completed.

The Press Advisory Committee (PAC) finalized the empanelment of printers. Accordingly nine printers were empanelled with the University Press for different kind of printing jobs. The number of jobs executed during the financial year 2015-2016 were 558, which were valued at Rs.2,23,41,971/- and 627 dockets were opened.



## ACADEMIC CENTRES

### AGRICULTURAL ECONOMICS RESEARCH CENTRE

#### Major Activities and Achievements

The Agricultural Economics Research Centre, University of Delhi was established in 1954 as a section of the Delhi School of Economics with complete funding from the Ministry of Agriculture (MOA), Government of India (GOI) to carry out research on aspects related to rural economy and agriculture in India. Since then, the Centre has completed more than 300 policy oriented studies for the Ministry. At present the Centre is a maintained institution of the University of Delhi under Ordinance XX-G.

The following are the current major areas of research of Agricultural Economics Research Centre (AERC):  
Economic Analysis of Costs and Returns of off-season Vegetables in Uttrakhand  
Farmer Suicides: Causes and Policy Prescriptions in Haryana.

Some of the recent projects undertaken at the Centre include:

A study on “Relationship between Wholesale Prices, Retail Prices, Export Prices of Basmati in Haryana” by Dr. Usha Tuteja for the Ministry of Agriculture, Government of India during 2015-2016. In addition, the Centre has been submitting quarterly status of 15 indicators in jurisdiction states of Haryana and Uttrakhand under the supervision of Dr. Usha Tuteja.

The Centre also has a small research and reference library and during the financial year 2015-16 Rs.23,256/- (approximately) had been utilized for the purchase of books and journals in the field of agricultural economics and on allied subjects such as rural development, environment and trade, etc.

#### Publications

Chandra, S. (2016). Nature, extent and determinants of marketed and marketable surplus of traditional vis-à-vis improved variety of paddy in Eastern Uttar Pradesh. *Indian Journal of Economics and Development*, 12(1), 65-70.

Tuteja, U. (2015). Likely impact of deficient monsoon on agriculture. *Economy Matters*, 20(5), May-June.

Tuteja, U. (2015). Possibilities and constraints in adoption of alternative crops to paddy in Haryana. *Agricultural Situation in India*, LXXII(8), 36-41.

Tuteja, U. (2016). Assessment of marketable and marketed surplus of major foodgrains in Haryana. *Agricultural Situation in India*, LXXII(10), 52-59.

### CENTRE FOR DETECTOR AND RELATED SOFTWARE TECHNOLOGY

#### Major Activities and Achievements

The Centre is established at the Department of Physics and Astrophysics and has been closely associated with the CMS Experiment at CERN, Geneva, Switzerland. Lately, the Centre has been involved in the design, development and fabrication of Multi-strip Si sensors in collaboration with BEL, Bengaluru which were then characterized at

KIT, Germany. These state-of-the-art detectors play a significant role in Nuclear and High Energy Physics (HEP) and have been developed almost for the first time in India.

## Publications

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Adam, W., et al. (2016). Trapping in proton irradiated  $p^+ - n - n^+$  silicon sensors at fluences anticipated at the HL-LHC outer tracker. *Journal of Instrumentation*, 11(04), P04023 (19 pages).

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Khachatryan, V., et al. (2015). Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. *Journal of High Energy Physics*, 2015(11), 71 (43 pages).

Khachatryan, V., et al. (2015). Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at  $\sqrt{s} = 8\text{TeV}$ . *Physics Letters B*, 750, 494-519.

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Khachatryan, V., et al. (2016). Search for pair-produced vectorlike B quarks in proton-proton collisions at  $\sqrt{s} = 8\text{TeV}$ . *Physical Review D*, 93(11), 112009 (32 pages).

Khachatryan, V., et al. (2016). Measurement of the  $W^+W^-$  cross section in pp collisions at  $\sqrt{s} = 8\text{TeV}$  and limits on anomalous gauge couplings. *The European Physical Journal C*, 76(7), 401 (29 pages).

Khachatryan, V., et al. (2016). Inclusive and differential measurements of the ttcharge asymmetry in pp collisions at  $\sqrt{s} = 8\text{TeV}$ . *Physics Letters B*, 757,154-179.

Khachatryan, V., et al. (2016). Search for a Higgs boson decaying into  $\gamma^* \gamma \rightarrow l\bar{l}\gamma$  with low dilepton mass in pp collisions at  $\sqrt{s} = 8\text{TeV}$ . *Physics Letters B*, 753,341-362.

Khachatryan, V., et al. (2016). Search for exotic decays of a Higgs boson into undetectable particles and one or more photons. *Physics Letters B*, 753, 363-388.

Khachatryan, V., et al. (2016). Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at  $\sqrt{s} = 8\text{TeV}$ . *Journal of High Energy Physics*, 2016(02), 145 (42 pages).

Khachatryan, V., et al. (2016). Search for resonant ttproduction in proton-proton collisions at  $\sqrt{s} = 8\text{TeV}$ . *Physical Review D*, 93(1), 012001 (35 pages).

Khachatryan, V., et al. (2016). A search for pair production of new light bosons decaying into muons. *Physics Letters B*, 752, 146-168.

### **On-going Research Projects**

Dr. Kirti Ranjan, DST Major Research Project, 2014-2019 entitled “Compact Muon Solenoid (CMS) Upgrade, Operation and Utilization”, Rs. 9.99 Crore.

Dr. Kirti Ranjan, DST Major Research Project, 2014-2019 entitled “Updating and Operation of Regional WLCG Grid System”, Rs. 25.30 Lakh.

Dr. Ashok Kumar, DST Major Research Project, 2015-2018 entitled “R&D of GEM Detectors for Scientific and Medical Applications”, Rs. 23.48 Lakh.

Dr. Md. Naimuddin, DST Major Research Project, 2013-2018 entitled “R&D Efforts by University Groups for INO Project”, Rs. 1.79 Crore.

### **Presentation in Conferences**

Dr. Ashok Kumar

Presented paper “RPC Detector Characteristics and Performance for INO-ICAL Experiment” in “17th International Workshop on Radiation Imaging Detectors (iWoRiD 2015)” held at DESY - Hamburg, Germany during June 8 - July 2, 2015.

Presented paper “Performance of Glass Resistive Plate Chambers using HARDROC Multichannel Readout” in “XIII Workshop on Resistive Plate Chambers and Related Detectors (RPC2016)” held at Ghent University, Belgium during February 22-26, 2016.

Geetika Jain

Poster presentation “Design Optimization of Pixel Sensors using Device Simulations for the Phase-II CMS Tracker Upgrade” in “Frontier Detectors for Frontier Physics Elba Conference 2015” held at University of Delhi, India during May 24-30, 2015.

Poster presentation “Characterization of Silicon Detectors Through TCT” in “Frontier Detectors for Frontier Physics Elba Conference 2015” held at University of Delhi, India during May 24-30, 2015.

Presented paper “TCAD 2D Simulations for Phase II Pixel Sensor Design” in “27th RD50 Workshop on Radiation Hard Semiconductor Devices for very High Luminosity Colliders” held at CERN, Geneva, Switzerland during December 02-04, 2015.

Ranjeet presented paper “TCAD Simulation for Low Gain Avalanche Detectors” in “27th RD50 Workshop on Radiation Hard Semiconductor Devices for very High Luminosity Colliders” held at CERN, Geneva, Switzerland during December 02-04, 2015.

### **Inter Institutional Collaboration**

All above research projects are inter-institutional projects.

**Number of Ph.D./M.Phil. Degrees Awarded:** 3 Ph.D

## **CENTRE FOR ENTREPRENEURSHIP AND CAREER ORIENTED PROGRAM**

### **Major Activities and Achievements**

The Centre for Entrepreneurship and Career Oriented Program (CECOP) was established at Shaheed Rajguru College of Applied Sciences for Women with an aim to conduct short term courses which impart suitable skills to graduates and undergraduate students. The Centre wishes to inculcate and enrich the entrepreneurial environment in India by creating an easily accessible and exhaustive set of resources for the young entrepreneurs, which includes the students, the budding professionals and mentors. The Centre effectively meets these objectives through linking student enterprises from campus to companies, seeding funds and investors to transform the newly proposed ideas

into successful start-ups. Workshops and inter college competitions are also organized in association with national professionals and eminent personalities to inspire and invoke the huge potential within the students and to create awareness and motivate students about entrepreneurship. CECOP has also proposed to establish Entrepreneurship Development Cell (EDP) and Innovation and Creativity Centres in all colleges of University of Delhi to encourage budding managers and entrepreneurs.

Within the Centre there is an Entrepreneurship Cell or E-Cell which participated in the National Entrepreneurship Challenge (NEC) organized by IIT Bombay and secured the second position amongst fifty participating colleges held on 31 January, 2016. The E Cell is planning to establish an incubation center in the college with the help of ISBA having objective of helping students in transforming their ideas into reality and to begin their start-ups.

The E-cell and CECOP organized a management fest named CONQUEST on March 30, 2016. Apart from the Expert Talk Series, the Festival witnessed a series of competitive events related to management skills which were aimed at providing participants the exposure to the real world work experience. The following were the list of events held under CONQUEST, 2016:

Innovace- This was a business plan competition.

Marketing Madness - Where a company name and tagline were given and students had to give a new tagline to the company.

Idea Stall-Where students could sell their new products and services by setting up a stall.

The event was a great success and saw participation from various colleges of the University as well as other colleges in Delhi and NCR.

### **Presentation in Conferences**

Dr. S. Lakshmi Devi delivered a lecture on “Ideas and Skills for Women Entrepreneurship” in a “Seminar cum Interactive Workshop on Entrepreneurship: The Key to Empowerment of Women” organized by University Women’s Association Delhi and Swami Shivananda Memorial Institute held on March 19, 2016.

## **CENTRE FOR GENETIC MANIPULATION OF CROP PLANTS**

### **Major Activities and Achievements**

The major activity of the Centre is to undertake research on genetic improvement of oilseed *Brassicacae* through conventional and biotechnological approaches. Major financial supports have come from the National Dairy Development Board (NDDB) and DBT. The Centre is primarily working on molecular mapping of *B. juncea*. A total of eight bi-parental DH mapping populations are being used for genome mapping and mapping of several qualitative and quantitative traits. Different marker systems (detected and developed in the lab) such as RFLP, AFLP, genomic and genic SSRs and RNAseq-based SNPs are being used for whole genome mapping as well as target region fine mapping. Presently genome sequencing of *B. juncea* var. Varuna is being sequenced using PacBio long read technology. Low-pass sequencing of five other important mustard lines has been targeted for developing SNP based breeding platform.

### **Publications**

Bali, S., Mangain, A., Raina, S. N., Yadava, S. K., Bhat, B., Das, S., Pradhan, A. K., & Goel, S. (2015). Construction of a genetic linkage map and mapping of drought tolerance trait in Indian beverage tea. *Molecular Breeding*, 35(5), 112 (20 pages).



Bisht, N.C., Jagannath, A., Augustine, R., Burma, P.K., Pradhan, A.K., & Pental, D. (2015). Effective restoration of male-sterile (barnase) lines requires overlapping and higher levels of barstar expression: A multi-generation field analysis in *Brassica juncea*. *Journal of Plant Biochemistry and Biotechnology*, 24(4), 393-399.

Meenu, Ausustine, R., Majee, M., Pradhan, A. K., & Bisht, N. (2015). Genomic origin, expression differentiation and regulation of multiple genes encoding CYP83A1, a key enzyme for core glucosinolate biosynthesis, from the allotetraploid *Brassica juncea*. *Planta*, 241(3), 651-665.

Rout, K., Sharma, M., Gupta, V., Mukhopadhyay, A., Sodhi, Y. S., Pental, D., & Pradhan, A. K. (2015). Deciphering allelic variations for seed glucosinolate traits in oilseed mustard (*Brassica juncea*) using two bi-parental mapping populations. *Theoretical and Applied Genetics*, 128(4), 657-666.

Sharma, M., Mukhopadhyay, A., Gupta, V., Pental, D., & Pradhan, A. K. (2016). *BjuB.CYP79F1* regulates synthesis of propyl fraction of aliphatic glucosinolates in oilseed mustard *Brassica juncea*: Fractional validation through genetic and transgenic approaches. *PLoS One*, 11(2), e0150060 (17 pages).

### **On-Going Research Projects**

Centre Project (Prof. D. Pental & Prof. A.K. Pradhan), BIPP, DBT, 2010-2016 entitled “To Conduct Confined Field Trials and Biosafety Studies on Genetically Engineered *Brassica juncea* (Male Sterility and Restorer Lines as Pollination Control Mechanism) for Heterosis Breeding and Yield Improvement”, Rs. 8.00 Crore.

Centre Project (Prof. D. Pental, Prof. A. K. Pradhan, & Prof. J. Kaur), DBT, R&D Project, 2015-2020 entitled “Centre of Excellence on Genome Mapping and Molecular Breeding of Brassicas”, Rs. 4.87 Crore.

Centre Project (Prof. D. Pental), DBT, R&D project, 2015-2018 entitled “Developing Genetics and Genomic Interface to Develop Strategies for Sustainable Use of Resistance to White Rust in Oilseed Mustard (*Brassica Juncea*)”, Rs. 1.89 Crore.

Centre Project (Prof. A. K. Pradhan), DBT, R&D Project, 2015-2018 entitled “Broadening The Genetic Diversity Underpinning Seed Quality and Yield Traits in Mustard Rape and Oilseed Rape”, Rs. 1.04 Crore.

## **CENTRE FOR INNOVATION IN INFECTIOUS DISEASE RESEARCH, EDUCATION AND TRAINING**

### **Major Activities and Achievements**

Centre for Innovation in Infectious Disease Research, Education and Training (CIIDRET) has been established under ordinance XI-A in October 2015. Its research aims include innovative approaches towards developing diagnostics, prophylactics and therapeutics for infectious diseases plaguing India, such as Tuberculosis, Malaria, Typhoid HIV (AIDS), Chikungunya and Dengue infections. The other objective is to utilize available, and to create new state-of-the-art Proteomic and Genomic facilities, and to train undergraduate, post-graduate students and, research scholars to enhance their skills in advance techniques and technologies, beyond their regular classroom learning, through short-term and long-term courses. Yet another aim of the centre is to interact with Biotech Industries to provide consultancy and to provide solutions through expertise and facilities available with scientists/teachers involved in CIIDRET.

CIIDRET undertook an Industrial project for “producing single cell clones of hybridoma” from M/s SPAN Diagnostics Limited, Surat for a total sum of Rs.7.70 lakh. Major part of the fund was for procuring consumables and some portion was earned as consultancy/intellectual fee.

Prof. Vijay K. Chaudhary, Director, CIIDRET is providing support as advisor/consultant to M/s Yashraj Biotechnology Ltd., Navi Mumbai, from April 1, 2016.

### **Honours/Distinctions**

Prof. Vijay K. Chaudhary is the Co-Chairman of the Task Force “DBT-Boost to University Interdisciplinary Life Science for Education and Research (DBT – BUILDER).

### **Research Projects**

A Centre of excellence entitled “Antibody Technology: Research for Therapeutic and Diagnostic Application” has been recommended by the DBT Task Force for financial support of approximately Rs. 7 crore. The final sanction letter is expected in the next financial year.

DBT supported DNA sequencing facility has been upgraded to include microarray on Agilent platform and Next Generation Sequencing on MiSeq platform and has been renamed as “DBT-supported Genomic Facility at University of Delhi South Campus”.

### **Presentation in Conferences**

Prof. Vijay K. Chaudhary

Delivered lecture in a “Symposium on Breakthrough and New Challenges in the Diagnosis and Management of Tuberculosis” held at MGM Institute of Health Sciences, Navi Mumbai during March 18-19, 2016.

Delivered foundation day lecture on “The Magic of Antibodies” organized by National Institute for Research in Tribal Health, Jabalpur (ICMR – NIRTH) on March1, 2016.

Made a presentation in “Global Biotechnology Summit-2016” celebrating 30 years of Biotechnology in section “Swatch Bharat Swasth Bharat: Innovation for a Healthy Nation” during February 5-6, 2016.

Attended as the Chief Guest and delivered inaugural lecture on “Science: My Inspiration” in the “INSPIRE (Innovation in Science Pursuit for Inspired Research) Internship Program” an initiative of Department of Science and Technology (DST), Government of India held at AMITY University Campus, Manesar on November 24, 2015.

Prof. Vijay K. Chaudhary & Dr. Amita Gupta displayed a competitively selected poster describing their innovation “TB Confirm: A Rapid Test for Culture Confirmation of Mycobacterium Tuberculosis for Detection of TB” at exhibition on “Innovation in Medical Science and Biotechnology” held at the Lawn of Rashtrapati Bhawan, New Delhi on March 16, 2016.

# **CENTRE FOR INTER-DISCIPLINARY STUDIES FOR MOUNTAIN & HILL ENVIRONMENT**

## **Major Activities and Achievements**

Realizing the significant contributions of the Centre in the field of environment impact assessment of power projects and environmental sensitivity studies of river basins, Ministry of Power, Government of India recognized it as Centre of Excellence in 2001-2002. It was established as an R&D Centre for conducting studies related to issues of environment impact and environment management in the power sector. The Centre has conducted numerous studies related to environment impact assessment and biodiversity conservation across India. The Centre also provides expert advice and consultancy services to various institutions of Government of India, its PSUs and Private sector in the field of environment impact assessment and sustainable development. The Centre has a state-of-the-art infrastructure and vast expertise available in the area of Ecology, Biodiversity Conservation Management, Aquatic Ecology, Remote Sensing and Geographic Information System (GIS). The Centre has played key role in assisting Public and Private sector organizations in pursuing the goal of sustainable development.

The faculty members and Scientists at the Centre are also engaged in full-time teaching programmes of the Department of Environmental Studies and guide research scholars at Ph.D. level at the Centre.

## **Honors/Distinctions**

Prof. Maharaj K. Pandit

Appointed as Hrdy Fellow, Radcliffe Institute, Harvard University, 2015-2016.

Appointed as Independent Director (Board of Directors) in THDC India Ltd. by the Government of India, 2015-present.

Appointed Member in the Special Committee on Interlinking of Rivers, Government of India, 2015- present.

Elected Fellow, National Academy of Sciences of India, Allahabad.

## **Publications**

Bhatt, J.P., & Pandit, M.K. (2015). Endangered golden mahseer *Tor putitora* hamilton: A review of natural history. *Reviews in Fish Biology & Fisheries*, 26(1), 25-38.

Bhatt, J. P., Kumar, M., Mehta, R., & Pandit, M.K. (2016). Assessing potential conservation and restoration areas of freshwater fish fauna in the Indian river basins. *Environmental Management*, 57(5), 1098-1111.

Jain, M., Dawa, D., Mehta, R., Dimri, A.P., & Pandit, M.K. (2016). Monitoring land use change and its drivers in Delhi, India using multi-temporal satellite data. *Modeling Earth Systems and Environment*, 2(1), 19 (14 pages).

Kumar, M., Telwala, Y., Nautiyal, D.C., & Pandit, M.K. (2016). Modelling the impacts of future climate change on plant communities in the Himalaya: A case study from Eastern Himalaya, India. *Modeling Earth Systems and Environment*, 2(2), 92(12 pages).

Nyamwanza, A., Kayhan, A.K., Pandit, M.K., Haque, A., Riedy, C., Doherty-Bigara, J., Galarraga, I., & Dingman, E. (2015). The big question: Climate's biggest losers who has the most to lose from climate change in your country? *World Policy Journal*, 32(2), 3-7.

### **On-Going Research Projects**

Prof. M.K. Pandit, Research Project from WAPCOS Ltd., 2015-2016 entitled "Ecological Survey (Monsoon Season) for Various Studies in India (Upper Siang HEP, Kamala HEP and Pancheshwar HEP)", Rs. 12.60 Lakh.

Prof. M.K. Pandit, Research Project from WAPCOS Ltd., 2015-2016 entitled "Ecological Survey (Winter Season) for Pancheshwar HEP", Rs. 4.20 Lakh.

Prof. M.K. Pandit, Research Project from MOEF and CC, 2015-2016 entitled "Cumulative Impact Assessment and Carrying Capacity Study in Upper Reaches of River Ganga in Uttarakhand", Rs. 66.00 Lakh.

### **Presentation in Conferences**

Prof. Maharaj K. Pandit

Delivered lecture on "Intertwined Geophysical and Ecological Processes in the Evolution of the Himalayan Flora" in the "OEB Seminar Series" held at Department of Organismic & Evolutionary Biology, Harvard University, USA on December 3, 2015.

Delivered lecture on "Combined Impacts of Climate Change and Dam Building in the Himalaya" in the "Public Talk under Contemporary Science Issues and Innovations" held at Belmont Community Television on December 22, 2015.

Delivered talk on "Vulnerability to Climate Change and On-going Deforestation Have Heightened Biotic Extinctions in the Himalaya" in the "Seminar held at Harvard Forest" held at Harvard University, USA on January 15, 2016.

Addressed Water Diplomacy Group Colloquium on "Water Resource Development in the Himalaya-Environmental, Economic and Geo-Political Constraint" held at the Fletcher School of Law and Diplomacy, Tufts University, USA on January 25, 2016.

Delivered a talk on "Let a Thousand Gentians Bloom" held at Radcliffe Institute for Advanced Study, Harvard University, Harvard, USA on April 8, 2016.

Mr. R. Mehta delivered a talk on "Africa Since 2000: Transition and Change" held at Department of African Studies, University of Delhi, Delhi, India during February 18-19, 2016.

### **Inter Institutional Collaboration**

Prof. Andrew Knoll, OEB, Harvard University

Prof. Charles Davis, OEB, Harvard University

Prof. Robin Hopkins, OEB, Harvard University

Prof. Oliver Jagoutz, AEPS, MIT

Prof. Taylor Perron, AEPS, MIT

Prof. Trevor Price, University of Chicago

Prof. Lian Pin Koh, University of Adelaide

MOEF&CC, New Delhi  
WAPCOS Limited, Gurgaon  
NHPC Limited, Faridabad  
THDC Limited, Uttarakhand  
SJVN Limited, Himachal Pradesh

**Number of Ph.D./M.Phil. Degrees Awarded:** 1 Ph.D

**Faculty Strength:** Permanent: 1; Contract basis: 2

## **CENTRE FOR PROFESSIONAL DEVELOPMENT IN HIGHER EDUCATION**

### **Major Activities and Achievements**

Centre for Professional Development in Higher Education (UGC-Human Resource Development Centre) has been tirelessly organizing courses aimed at adding new dimensions to the existing capabilities of universities/college teaching faculty. This year the Centre conducted 4 Orientation Programmes (158 participants), 7 Refresher Courses (284 participants) and 5 Workshops (232 participants) that were attended by university/college teaching faculty from all over the country. Teachers who attended different courses belonged to different gender, spectrum of castes, local and outstation participants besides teachers belonging to VH/PH category. In addition to the above, Centre for Professional Development in Higher Education (CPDHE) this year also published three books with ISBN number in which hundreds of University/college teaching faculty contributed with their articles from different parts of the country. The Centre is also making specialised efforts to train teachers in innovative use of technology for augmenting classroom teaching.

### **Honours/Distinctions**

Prof. Geeta Singh

Appointed as a member on the board of Local Programme Planning and Management Committee of UGC-Human Resource Development Centre, University of Mumbai, 2015.

Appointed as a Member on Expert Committee for assessment of proposals under the scheme of Construction of Women's Hostel, UGC-SERO, Hyderabad, 2015.

Appointed as a Member on Expert Committee for evaluation of the performance and academic attainments for the conferment of Autonomous Status to Colleges under State Government of India, 2015.

Appointed as a Member on Expert Committee for assessment of proposals under the scheme of Construction of Women's Hostel, UGC-WRO, Pune (MH) during XII<sup>th</sup> Plan Period, 2015.

Appointed as a Member of the Expert (Monitoring/Review) Committee under the schemes of Universities with Potential for Excellence (UPE) and Colleges with Potential for Excellence (CPE) of UGC, 2015.

Appointed as a Governor's Nominee on the Executive Council of Maharshi Dayanand University, Rohtak nominated by His Excellency Governor of Haryana, 2015.

Governor's Nominee as Court Member of Maharshi Dayanand University, Rohtak nominated by His Excellency Governor of Haryana, 2015.

Governor's Nominee on the Executive Council of Chaudhary Devi Lal University, Sirsa nominated by His Excellency Governor of Haryana, 2015.

Appointed as a member on the board of Local Programme Planning and Management Committee of UGC-Human Resource Development Centre, University of Kashmir, 2016.

Appointed as a member on the board of LPPMC of UGC-Human Resource Development Centre, R.D. University, Jabalpur, 2016.

Nominated Member, Hindi Advisory Committee, Ministry of Rural Development, Government of India, 2016.

Appointed as a Member, Academic Advisory Committee, UGC-Human Resource Development Centre, Devi Ahilya Vishwavidyalaya, Indore, 2016.

Governor's Nominee on the Academic Council of Raj Rishi Bhartrihari Matsya University, Alwar, 2016.

### **Publications**

Singh, G., & Kaur, S. J. (2015). *New trends in education*. New Delhi, Delhi: Renu Publishers.

Singh, G., & Sharma, N. (2015). *Professional development of teachers*. New Delhi, Delhi: New Delhi Publishers.

Singh, G., & Parihar, S.M. (2016). *Gender and space: Multidisciplinary insight*. CPDHE, New Delhi, Delhi: New Delhi Publishers.

Singh, G., & Sharma, N. (2016). *Quest for excellence in higher education*. New Delhi, Delhi: Renu Publishers.

Singh, G. (2016). *Nation building through higher education*. CPDHE, New Delhi, Delhi: New Delhi Publishers.

Singh, G. (2016). *Dimensions of higher education*. CPDHE, New Delhi, Delhi: New Delhi Publishers.

Singh, G. (2016). *Mei tere vishvasmeihu*. New Delhi, Delhi: Diamond Books.

Singh, G., & Bharadwaj, P. (2016). *Sufiyana dil*. New Delhi, Delhi: Diamond Books.

### **Conferences Organised**

CPDHE organised 4 Orientation Programmes (158 participants), 7 Refresher Courses (284 participants) and 5 Workshop (232 participants) during the year 2015-16. The complete list is as follows:

Orientation Programme (OR-80) held during May 25 - June 20, 2015.

Orientation Programme (OR-81) held during June 8 - July 4, 2015.

Orientation Programme (OR-82) held during November 17 - December 15, 2015.

Orientation Programme (OR-83) held during November 17 - December 15, 2015.

Refresher Course in “Winter School” held during February 18 - March 9, 2016.

Refresher Course in “English (Language, Literature and Culture)” held during March 2-22, 2016.

Refresher Course in “Research Methodology (ID)” held during June 15 - July 4, 2015.

Refresher Course in “Chemistry” held during June 26 - July 16, 2015.

Refresher Course in “Environmental Studies/Earth Sciences (ID)” held during October 13 - November 4, 2015.

Refresher Course in “Mathematical Sciences” held during November 26 - December 16, 2015.

Refresher Course in “Women Studies (ID)” held during December 2-22, 2015.

Workshop on “Academic Administration” held during March 29-31, 2016.

Workshop on “Innovative Teaching: New Indian Accounting” held during May 22-23, 2015.

Workshop on “Human Rights” held during July 6-11, 2015.

Workshop on “ICT Usages in Teaching” held during September 1-8, 2015.

### **Presentation in Conferences**

Prof. Geeta Singh

Delivered 2 lectures on “Education through Ethics and Values” and “Education System in Vedic Period” in “Refresher Course for Teacher Educators” held at UGC-Human Resource Development Centre, University of Kashmir, Srinagar on March 26, 2016.

Delivered 2 lectures on “Gender Sensitization through Higher Education” and “Teacher Educators on Institution Building” in “Refresher Course for Teacher Educators” held at UGC-Human Resource Development Centre, University of Kashmir, Srinagar on March 26, 2016.

Delivered 2 lectures on “Gurukul System and Contemporary Education” and “Communication and Personality Building” in “Refresher Course for Teacher Educators” held at UGC-Human Resource Development Centre, University of Kashmir, Srinagar on March 28, 2016.

Delivered 2 lectures on “Leadership in Higher Educational Institution” and “Ethics and Values in Higher Education” in “70th Orientation Course” held at UGC-Human Resource Development Centre, University of Kashmir, Srinagar on January 29, 2016.

Delivered 2 lectures on “Higher Education: Issues & Challenges” and “Development of Higher Educational Institutions: A Historical Perspective” in “70th Orientation Course” held at UGC-Human Resource Development Centre, University of Kashmir, Srinagar on January 28, 2016.

Delivered 2 lectures on “Present Social Scenario & Higher Education” and “Contemporary India & Higher Education” in “70th Orientation Course” held at UGC-Human Resource Development Centre, University of Kashmir, Srinagar on January 28, 2016.

Delivered 2 lectures on “What Makes You a Great Teacher? Some Lessons” and “Institution Building in India: A History of Some Remarkable Higher Educational Institutions” in “69th Orientation Course” held at UGC-Human Resource Development Centre, University of Kashmir, Srinagar on December 4, 2015.

Delivered a lecture on “Education: Role of a Teacher and Teaching Management” in 69th Orientation Course held at UGC-Human Resource Development Centre, University of Kashmir, Srinagar on December 4, 2015.

Delivered 2 lectures on “Motivation” and “Team Building” in “115th Orientation Course” held at UGC-Human Resource Development Centre, Devi Ahilya Vishwavidyalaya, Indore on September 12, 2015.

Delivered 2 lectures on “Leadership” and “Personality Development” in “115th Orientation Course” held at UGC-Human Resource Development Centre, Devi Ahilya Vishwavidyalaya, Indore on September 11, 2015.

Presented paper “Understanding E-Generation in Contemporary Times” in “International Conference on Empowering E-Generation: Vision 2020” organized by MIT School of Education and Research (Pune) in association with The Learning Community during March 11-12, 2016.

Presented paper “Saraswati Nadi ki Ethihaskata - Navin Anusandhan” in “National Conference on Emerging Perceptions of Historical Writings in India” organized by Department of History and Indian Culture and Centre for Rajasthan Studies, University of Rajasthan, Jaipur during January 28-29, 2016.

**Faculty Strength:** Permanent:1 (Director)

## **CLUSTER INNOVATION CENTRE**

### **Major Activities and Achievements**

Design Innovation Centre at Cluster Innovation Centre (CIC) became fully operational in July 2015. The Centre offers graduate, post-graduate and student internships who are mentored by junior and senior design fellows. DUDIC will offer electives, certificate courses, workshops and design camps with the objective of infusing design-based learning. The courses will be delivered in a blended-learning format.

Eight interns are working under four Senior Design Fellows and four Junior Design Fellows. Currently, at DUCIC – Technology Business Incubator (MSME), eight projects are being incubated out of which four are in the product development stage, two are in the market testing stage, one has received Venture Capitalist funding for final launch, and one is already a profit making start-up. TBI provides laboratory/workshop facilities and office space to the selected incubates in a Public Private Partnership (PPP) mode with the incubate committing 15% of the cost of incubation for leading to a micro scale start-up or 25% of the cost of incubation for leading to a small scale start-up. Funding ranges between Rupees Four Lakh and Rupees Eight Lakh.

MSc. Mathematics Education (MME) students have developed Math Plaza, a creative platform to create, demonstrate and experiment innovative teaching-learning resources for active mathematics learning. As an ongoing project in the past two years, it is based on real time teaching challenges faced by students and math teachers.



Resources at Math Plaza can be used by students, teachers, researchers and others who have an interest in math education.

MME students have presented their work in various conferences and seminars at national level. Students presented their work at: National Conference on Quality Assurance in School Education held at RIE Bhubaneswar, Odisha (December 17-18, 2015); National Conference on Mathematics Teaching held at RIE, Mysore (21 & 22 December 2015); 50th AMTI Annual Conference held at Hindustan University, Kelambakkam, Padur, Chennai (December 27-30, 2015); National Conference on Teacher Education held at Department of Education, University of Delhi (February 11-12, 2015).

B.A (Hons) Humanities & Social Sciences students prepared ‘A Handbook on Indian Sign Language containing vocabulary of medical sector. Manuscript of a short handbook on ISL for police has been submitted. A digital directory of Sign language interpreters within Delhi and NCR has been compiled. A preliminary Short-term Orientation Course for Indian Sign Language is being conducted at CIC. The role that CIC played was crucial in creating a synergy among the various stakeholders – the Deaf Community, Relevant NGOs, Academia and the Delhi Police. Students got in touch with different organizations to facilitate the pooling of resources to make a positive impact in the lives of the deaf community.

The second batch of six students from Copenhagen University, Denmark enrolled in CIC in August, 2015. Their credit requirement was a Hindi Language Course and Project Work. The Hindi Course was outlined and conducted by Professor Ravinder Gargesh with Mr. Ashu Mishra. Five students successfully completed this component of a Semester in December 2015. One student had to discontinue due to medical reasons.

Six students from IUST, Jammu & Kashmir, completed their internship under Prof. Shobha Bagai and Dr. Dorje Dawa in March, 2016.

The first batch of 40 students from B.Tech. (Information Technology & Mathematical Innovation) and 36 from B.A. (Hons) Humanities & Social Sciences passed out from CIC in 2015.

Eighty students from CIC participated in the ‘IT Maha Abhiyan’ Project during May to August 2015 under the MoU between University of Delhi, PHD Chamber of Commerce and IamSME of India.

Renowned Researcher and Historian, Dr. Amrit Kaur Basra has been recently appointed to hold the Tanya Tope Chair instituted by the Ministry of Culture, Government of India at CIC.

CIC has signed an MoU with TATA Power Delhi Distribution Limited (TPDDL) for participation of students in solving problems in areas of demand automation, data analytics, advanced metering infrastructure that will not only benefit the company but the society and nation in general.

### **Honours/Distinctions**

Prof. Pankaj Tyagi, Prof. Shobha Bagai, Prof. Bibhu Biswal, Dr. Jyoti Sharma, Dr. Vikas Kumar Verma, & Dr. Asani Bhaduri awarded “Teaching Excellence Awards for Innovation” by University of Delhi on Foundation Day held on May 01, 2015.

### **Dr. Mahima Kaushik**

Awarded “Vice-chancellor’s Fellowship” by University of Delhi, 2015.

Awarded Certificate of appreciation for “Best Display” in “Environmental Issues Section” to the Innovation Project (rc-201) during “Antardhwani 2015” held at University of Delhi, Delhi.

#### **Dr. Asani Bhaduri**

Recipient of “Global Health Travel Award” funded by the Bill & Melinda Gates Foundation during March, 2016.

Awarded “Microsoft Faculty Fellow” certificate by Technology Enriched Instruction Workshop ‘Faculty Development for the 21st Century’ organised by PHD Chamber of Commerce and Industry and Microsoft held on September 30, 2015.

#### **Dr. Jogeswar S. Purohit**

Editorial board member of Journal of Integrative sciences, Innovation and Technology.

Editorial board member of Global Advanced Research Journal of Medicine and Medical Sciences.

Editorial board member of International Journal of Zoology Research.

Reviewer of Advances in Biosciences and Biotechnology.

#### **Publications**

Arora, S., & Chaturvedi, R. (2016). Section 3(d): Implications and key concern for pharmaceutical sector. *Journal of Intellectual Property Rights*, 21(1), 16-26.

Bagai, S. (2015). Extension of the josephus problem with varying elimination steps. *DU Journal of Undergraduate Research and Innovation*, 1(3), 211-218.

Bagai, S. (2015). Fast & dynamic image restoration using laplace equation based image in painting. *DU Journal of Undergraduate Research and Innovation*, 1(3), 115-123.

Bhaduri, A., Misra, R., & Dhamija, N. (2015). To eat or not to eat: Understanding the tussle between mycobacteria and host autophagy. *Indian Journal of Microbiology*, 55(4), 456-459.

Chaturvedi, R. (2015). Intellectual property rights issues for research tools in biotechnology research. *Journal of Proteins and Proteomics*, 6(3), 225-236.

Humtsoe, M.K., & Priyanka, P. (2016). Injury management using CBT and mental endurance programme. *Journal of Physical Education Research*, 3(1), 56-63.

Kaur, A., & Chaturvedi, R. (2015). Compulsory licensing of drugs and pharmaceuticals: Issues and dilemma. *Journal of Intellectual Property Rights*, 20, 279-287.

Kaushik, M. (2015). Exploring renewable energy sources: Need of the hour. *DU Journal of Undergraduate Research and Innovation*, 1(3), 67-74.

Kaushik, M., Kaushik, S., & Kukreti, S. (2016). Exploring the characterization tools of guanine- quadruplexes. *Frontiers in Bioscience*, 1(21), 468-478.

Kaushik, M., Kaushik, S., Roy, K., Singh, A., Mahendru, S., Kumar, M., Chaudhary, S., Ahmed, S., & Kukreti, S. (2016). A bouquet of DNA structures: Emerging diversity. *Biochemistry & Biophysics Reports*, 5, 388-295.

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Kaushik, M., Singh, A., & Kukreti, S. (2015). Preferential recognition of DNAG-quadruplex topologies. *Journal of Proteins and Proteomics*, 6(1), JPP35.

Kaushik, M., Sinha, P., Jaiswal, P., Mahendru, S., Roy, K., & Kukreti, S. (2016). Protein engineering and de novo designing of a biocatalyst. *Journal of Molecular Recognition*, DOI: 10.1002/jmr.2546.

Khan, M.F., & Humtsoe, M.K. (2016). Quality of life of mothers having children with autistic spectrum disorders and learning disabilities. *Journal of Physical Education Research*, 3(1), 38-46.

Kumar, M., Kaushik, M., & Kukreti, S. (2015). Spectroscopic investigation of interaction between CT-DNA and new methylene blue. *Journal of Proteins and Proteomics*, 6(1), JPP 104.

Kumar, N. (2015). *Brave new bollywood: In conversation with contemporary hindi filmmakers*. New Delhi, Delhi: Sage Publishing.

Kumar, N. (2015). *Essays in medieval Delhi*. New Delhi, Delhi: Research India Press.

Kumar, N. (2015). *State, society and crime in early modern Rajasthan*. New Delhi, Delhi: Research India Press.

Kumar, S., Shobha, & Pal, S.K. (2015). A new sustainable prototype USP for education information system. In Proceedings of the International Conference on *Futuristic Trends in Computational Analysis and Knowledge Management*, IEEE, 174-179.

Kumar, S., Singh, R., & Pal, S.K. (2015). A conceptual architectural design for intelligent health information system: Case study on India. In Proceedings of the 7th International Conference on *Quality, Reliability, Infocom Technology and Business Operations(Trends and Future Directions)*, in Press.

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Maji, A., Bhaduri, A., Gokhale, R., & Singh, Y. (2015). Expression profiling of lymph nodes in tuberculosis patients reveal inflammatory milieu at site of infection. *Scientific Reports*, 5, 15214 (10 pages).

Mir, S. (2016). Geography of tourism India. In L.S. Bhat, H.S. Sharma, M.H. Qureshi, H. Ramachandran, & R.N. Vyas (Eds.), *ICSSR research survey and explorations: Economic geography, Vol. II*(pp. 41-64). New Delhi, Delhi: Oxford University Press.

Mishra, N., Hasse, M., Biswal, B., & Singh, H.P. (2015). Reliability of unstable periodic orbit based control

strategies in biological systems. *Chaos*, 25, 043104 (11 pages).

Purohit, J.S., & Chaturvedi, M. (2016). Chromatin and aging. In P.C. Rath, R. Sharma, & S. Prasad (Eds.), *Topics in Biomedical Gerontology*, in Press.

Sarkar, N., & Verma, V. K. *Streaming the past: Peninsular India in history*. New Delhi, Delhi: Primus Books (Forthcoming).

Sharma, J. (2015). Mentoring young minds: Responding to the needs of gifted children. *International Journal of Science and Research*, 4(5), 2891-2892.

Sharma, J. (2016). Developing context specific processes to identify & mentor gifted children in India. *International Education and Research Journal*, 2(2), 18-23.

Sharma, V., Singh, V., Arora, M., Arora, S., & Tandon, R.P. (2015). Influence of donor-acceptor materials on the photovoltaic parameters of conjugated polymer/fullerene solar cells. *Journal of Materials Science: Materials in Electronics*, 26, 6212-6217.

Sharma, V., Singh, V., Arora, M., Arora, S., & Tandon, R.P. (2015). Bulk-heterojunction solar cells with different active layer blends: comparison of experimental and theoretical results. *Advanced Materials Letters*, 6(10), 920-923.

Sharma, V., Singh, V., Arora, M., Arora, S., & Tandon, R.P. (2016). Degradation analysis of PCDTBT:PC71BM organic solar cells-An insight. *Current Applied Physics*, 16, 273-277.

Shobha, Kumar, S., Kalla, P., & Yadav, R. (2015). A cloud framework for ICT cost reduction in Delhi University: Case study. In Proceedings of the 7th International Conference on *Quality, Reliability, Infocom Technology and Business Operations (Trends and Future Directions)*, in Press.

Singh, S., & Bhargava, R. (2015). Element free Galerkin simulation of flow and heat transfer of a viscoelastic fluid over a stretching sheet embedded in a porous medium with variable fluid properties and Newtonian heating. *Scientia Iranica B*, 22(2), 504-518.

Singh, S., & Bhargava, R. (2015). Numerical simulation of a phase transition problem with natural convection using hybrid FEM / EFGM technique. *International Journal of Numerical Methods for Heat and Fluid Flow*, 25(3), 570-592.

Tyagi, P. (2016). Effects of in-situ heat-treatment on residual stress dependent optical properties of ZnI<sub>2</sub> thin films. *Indian Journal of Science and Technology*, 9(3), 1-6.

### **On-Going Research Projects**

Dr. Saleem Mir, Indian Council of Social Science Research Project, New Delhi, 2013-2016 entitled “Declining Sex Ratio in Jammu & Kashmir: A Ground Perspective”, Rs. 6.0 Lakh.

Dr. Saleem Mir, Research and Development Scheme of University of Delhi, 2015-2016 entitled “Water Scarcity in Delhi: Demand Supply Analysis”, Rs. 1.5 Lakh.

Dr. Jyoti Sharma (PI), Prof. Shobha Bagai (Co-PI) & Prof. Pankaj Tyagi (Co-PI), National Level Research Project from the Office of the Principal Scientific Advisor to the Government of India, 2014-2017 entitled “Establishing Process Based Identification and Mentoring Practices for Potentially Gifted Children in Science and Mathematics”, Rs. 1.65 Crore.

Dr. Asani Bhaduri, Research and Development Scheme from University of Delhi, 2015-2016 entitled “Tracking Expression Patterns of Mycobacterial Secreted Virulence Factors”, Rs. 3.0 Lakh.

Dr. Jogeswar Satchidananda Purohit, R & D Grant from University Grants Commission, 2015-2018 entitled “Purification of a Novel Histone H2A Specific Protease from Chicken Liver Nuclear Extract”, Rs. 3.0 Lakh.

Dr. Nirmal Kumar (PI), Ms. M. Khyothunglo & Mr. M. Jeevan, Innovation Projects Scheme from University of Delhi, 2015-2016 entitled “CIC 301: The Vanishing Portuguese Houses of Goa: Pointer of Ecological Disaster”, Rs. 5.0 Lakh.

Dr. Dorje Dawa (PI) & Dr. Deepika Bhaskar (Co-PI), Innovation Projects Scheme from University of Delhi, 2015-2016 entitled “CIC 302: Programs for Enhancing under Graduate Learning and Teaching Experiences through Innovative Projects”, Rs. 5.0 Lakh.

Prof. Pankaj Tyagi, Innovation Projects Scheme from University of Delhi, 2015-2016 entitled “CIC 303: Innovatively Designed Physics Experimental Modules with Link to Interactive Website and Mobile App”, Rs. 4.1 Lakh.

Dr. Swati Arora (PI) & Ms. Shobha Rai (Co-PI), Innovation Projects Scheme from University of Delhi, 2015-2016 entitled “CIC 304: Exploring Solar Energy and its Applications: Fabrication of Day to Day Utility Appliance/ Devices”, Rs. 5.1 Lakh.

Dr. Vikas Verma, Innovation Projects Scheme from University of Delhi, 2015-2016 entitled “CIC 305: Innovating for Village Transformation: An Exploration of the Hiware Bazar Model of Rural Development”, Rs. 4.5 Lakh.

Dr. Mahima Kaushik, Innovation Projects Scheme from University of Delhi, 2015-2016 entitled “CIC 306: Holistic Approach of Fighting Cancer: Prevention to Cure”, Rs. 7.0 Lakh.

Dr. Asani Bhaduri, Innovation Projects Scheme from University of Delhi, 2015-2016 entitled “CIC 307: Developing an Affordable Three-Dimensional Bioprinter”, Rs. 7.0 Lakh.

Dr. Jyoti Sharma (PI), Dr. Harender Kumar (Co-PI) & Mr. Anjani (Co-PI), Innovation Projects Scheme from University of Delhi, 2015-2016 entitled “CIC 308: Translating Lilavati of Bhaskara in the Realm of Present Mathematics Curriculum”, Rs. 4.5 Lakh.

Prof. B. Biswal, Innovation Projects Scheme from University of Delhi, 2015-2016 entitled “CIC 309: Development of Intelligent 3D-Printed Prosthetics”, Rs. 6.0 Lakh.

Prof. Shobha Bagai (PI) & Dr. Sonam Singh (Co-PI), Innovation Projects Scheme from University of Delhi, 2015-2016 entitled “CIC 310: Weaving Dreams for Destitutes”, Rs. 4.5 Lakh.

Dr. Achla Tandon (PI), Dr. Subhash (Co-PI) & Ms. Geetanjali Kala (Co-PI), Innovation Projects Scheme from University of Delhi, 2015-2016 entitled “CIC 311: Aggressive Behaviour Amongst School Children of India”, Rs. 4.0 Lakh.

### **Seminars Organized (Selected)**

Ms. Mara Shourgot, Director, International Programs, Duke University delivered talk on “Need Based-Out of School Programs for Young Learners” held on March 24, 2015.

Mr. Praveer Sinha, Managing Director of Tata Power Delhi Distribution Limited delivered talk on “Innovation and Creativity – The Way Ahead” held on September 22, 2015.

Dr. Meenakshi Gupta, Principal, S.D. Public School delivered talk on “Balancing Between Expectations, Reforms and Challenges in School Education: From the Lens of a School Administrator” held on October 15, 2015.

Dr. Sushil Chandra, Scientist 'F', INMAS DRDO delivered talk on “Technology and Augmenting Human Intelligence” held on October 15, 2015.

Prof. Bharat B. Aggarwal, Department of Experimental Therapeutics, Division of Cancer Medicine, University of Texas, MD, Anderson Cancer Center, delivered talk on “Targeting Inflammatory Pathways by Drugs from Mother Nature for Prevention and Treatment of Cancer” held on October 30, 2015.

Prof. Nick Jones, Reader in Applied Mathematics and Mathematical Physics, Imperial College, London interacted with the students and faculty on “Possible collaborations with Imperial College” held on December 15, 2015.

Dr. Kaushik Banerjee from Wildlife Institute of India delivered talk on “Leonine Tale: A Conservation Success Story from Gir Forests” held on January 22, 2016.

Ms. Elana Dontes, CEO at Star Tau, Tel Aviv University Entrepreneurship Center delivered a talk on “Fostering Entrepreneurial Spirit” held on February 03, 2016.

Mr. Diwakar Vaish, Head of Robotics and Research at A-SET Training and Research Institutes delivered a talk on “How Not to Be a Robot” held on February 25, 2016.

Mr. Shohei Michael Maekawa from Leave a Nest, Japan delivered a talk on “Real Tech Seed Acceleration” held on March 03, 2016.

### **Conferences Organised**

Seminar on “Innovative Practices and the Emergence of Adarsh Gaon” held on February 12, 2015.

Workshop on “E Yantra Lab Set-up Initiative” held during September 14-15, 2015 and March 12, 2016.

Workshop on “Game Lab” by Mr. Hilmi Quereshi (Ashokan Fellow) and Mr. Subhi Quereshi from ZMQ software systems held on November 25, 2015.

Two workshops for the Delhi Police Personnel on “Sensitising the Delhi Police Personnel Towards Issues concerning the Deaf and Indian Sign Language” held on February 29, 2016 and March 28, 2016 held at Special Training Centre, Delhi Police, Rajinder Nagar, Delhi.

Two Theatre workshops on “Body Language” and “Non-Verbal Communication” by Dr. Hadi Sarmad held on March 7 and 13, 2016.

To prepare MME students for doing meaningful research and innovation, workshops on the following themes were held:

- (i). “Geogebra as an Interactive Tool for Mathematics Teaching” held on November 16, 2015.
- (ii). “Data Analysis through SPSS” held on February 13, 2016.

IPR programme of “Training the Trainers” was organized for training the college teachers at Miranda House held on January 15, 2016.

Workshop on “Game Lab” conducted in association with SCIRE Association, Paris held on March 17, 2016.

Outreach program on “IPR for MSMEs” was organized at Faridabad in collaboration with PHD Chamber of Commerce and Ministry of MSME held on March 17, 2016.

Workshop on “Creativity in Communication” was delivered by Prof Brij Bakshi, Visiting Professor CIC held on September 15, and January 20, 2016.

The Katputhli Colony Slum Project had a “Discussion-Cum-Workshop” with the youth group of the slum called Jagriti held at CIC on October 06, 2015.

“IPR Workshop for Researchers” was organized for research scholars and faculty members at CIC held on December 14, 2015.

### **Presentation in Conferences**

Prof. Pankaj Tyagi delivered talk on “Innovation at Undergraduate Level: Need for Industrial and Academic Linkage” in “2nd International Conference on Science, Technology and Management” organized by Conference World AR Research Publication held at University of Delhi on September 27, 2015.

### **Prof. Shobha Bagai**

Delivered talk on “Project Based Learning: Through the Lens of Linear Algebra” in “Refresher Course” held at Bangalore University on June 1, 2015.

Delivered talk on “Discrete Mathematical Modelling” in “Refresher Course” held at Bangalore University on June 1, 2015.

Delivered talk on “Mathematical Modelling in Computational Biology – I & II” in “Refresher Course” held at Bangalore University on June 2, 2015.

Delivered inaugural talk on “Modelling Pharmokinetics” held at Acharya Narendra Dev College, University of Delhi held on September 17, 2015.

Delivered talk on “Predicting Future with Mathematics: Differential Equations” held at Deshbandhu College, University of Delhi in September, 2015.

Delivered presidential address and talk on “Games and Puzzles: Discovering the Art of Mathematics” held at Kalindi College, University of Delhi on October 29, 2015.

Delivered talk on “Buoyancy Induced Flow Over Axisymmetric Bodies Immersed in Porous Medium Saturated by a Nanofluid” at the National Conference on Mathematics and its Applications, AIT, Chikmagalur held on December 22-23, 2015.

Delivered talk on “On Road Colouring Problem” at the National Conference on Recent Statistical Computing Techniques and their Applications, Ramanujan College held on March 11, 2016.

**Dr. Rekha Chaturvedi, Chair, IPR (MHRD)**

Delivered talk on “Issues & Challenges for IPR & Tech-Transfer Management in Universities and Research Institutes in India” in “2nd National Workshop on Citation Analysis, Impact Factor, Patent and Copyrights for Maximizing Research Impact” organized by PHD Chamber of Commerce at PHD Chamber of Commerce, New Delhi on February 27, 2015.

Delivered talk on “IP as Frontline Tool for Make in India” in “World IP Day-2015” held at FICCI, Federation House, Tansen Marg, New Delhi on April 29, 2015.

Delivered lead lecture on “IPR Management in Indian Universities” in “IPR Management in Life Sciences & Agriculture” under the aegis of Geographical Indication, IPR & Organic Facilitation Cell at UPCAR, Lucknow organized at Amity University, Noida (UP) during June 1-2, 2015.

Delivered talk on “Use of Patent Searches in Research Paper Writing” in “Workshop on Assessing Impact of Research: Developing Better Research Skills” organized by PHD Chamber of Commerce at PHD Chamber of Commerce, New Delhi on February 26, 2016.

Delivered lecture on “Issues and Challenges for Patenting in MSMEs” in “Outreach Program on IPR” organized by University of Delhi (under the aegis of MHRD IPR Chair) in collaboration with PHD Chamber of Commerce and Ministry of MSME at Faridabad, Haryana on March 17, 2016.

Delivered talk on “Patenting - Scientist’s Perspective: Common Mistakes and Challenges Faced by Scientists” in “IPR Awareness Workshop” organized by the IP law firm K&S Partners, Gurgaon on March 18, 2016.

**Dr. Mahima Kaushik**

Delivered talk on “Environmental Pollution: A Ringing Bell for Cancer” in “National Symposium on Environmental Contamination and Public Health” organized at Department of Zoology, Zakir Hussain College, University of Delhi on August 24, 2015.

Delivered talk on “Alarming and Intertwined Relationship between Cancer and Environmental Pollution” in “National Conference on Nanoscience – Opportunities and Challenges” organized at Maitreyi College, University of Delhi during February 19-20, 2016.



**Dr. Nirmal Kumar**

Delivered talk on “Gender and Hindi Films” organized at WDC of Jesus and Mary College, New Delhi on February 7, 2015.

Delivered talk on “Prakash Jhaki Dalit Vyatha: Damul se Aarakshan Tak” organized at ICSSR sponsored National conference at Pondicherry University during October 5-6, 2015.

**Dr. Saleem Mir**

Presented paper “Tourists Preference for Landscape: A Study of Kashmirscape” in “37th Indian Geography Congress (NAGI) on Tourism, Resources, Environment and Development using GIS and Remote Sensing Techniques” organized at the University of Jammu during December 2-4, 2015.

Presented paper “Ecotourism Destination Identification in Kashmir Region using Geo-spatial Technologies” in “35th INCA International Congress on Spatial Governance for Development, Planning Smart Cities and Disaster Management” organized at Jawaharlal Nehru University during December 15-17, 2015.

Presented paper “Demand-Supply Analysis of Drinking Water: A Case of Indian Cities with Special Reference to Delhi” in “9th International Geographical Union Conference on Land-use Change Climate Extremes and Disaster Risk Reduction” organized at the University of Delhi during March 18-20, 2016.

Presented paper “Geography of Tourism in India” in “National Seminar” organized by ICSSR at JNU Convention Centre during March 22-23, 2016.

**Mr. Sachin Kumar** presented paper “A Conceptual Architectural Design for Intelligent Health Information System: Case Study on India” in “7th International Conference on Quality, Reliability, Infocom Technology and Business Operations (Trends and Future Directions) organized at University of Delhi, Delhi during December 28-30, 2015.

**Ms. Glory Khyothunglo Humtsoe**

Delivered lecture on “Identification, Intervention and Prevention of Disabilities” as part of the “In-Service Training and Sensitization of Key Functionaries of Central and State Governments, Local Bodies and Other Service Providers, Target Group - SMCs/Panchayats/Municipalities” organized at IASE, Jamia Millia Islamia, New Delhi on January 31, 2016.

Delivered lecture on “Prevention Strategies for Disabilities: Primary, Secondary & Tertiary Strategies” as part of the “In-Service Training and Sensitization of Key Functionaries of Central and State Governments, Local Bodies and Other Service Providers, Target Group - Grass-root Level Workers (CBR, ANM, Village Health Workers GOs/NGOs)” organized at IASE, Jamia Millia Islamia on February 13, 2016.

Delivered lecture on “Counseling: Concept, Principles, Assessment & Therapeutic Strategies” as part of an “Extension Lecture for Students of Masters in Special Education (Learning Disabilities)” organized by IASE at Jamia Millia Islamia, New Delhi on March 5, 2016.

Delivered lecture on “Occupational Therapy: Concept, Scope, Assessment & Classroom Intervention” as part of an “Extension Lecture for Students of Masters in Special Education (Learning Disabilities)” organized by IASE at Jamia Millia Islamia, New Delhi on March 12, 2016.

Ms. Geetanjali Kala presented paper “*Diwan-e-Ghalib Ka Pehla Shair*” in the “Seminar on Ghalib Ki Manviyat” organized at Ghalib Academy on February 21, 2016.

M. Kaushik, A. Singh, & S. Kukreti, made poster presentation on “Structural Switch from Duplex to Cruciform in a Quasipalindrome Present in Promoter Region of Human OTOG Gene” in “International Congress on Friedreich’s Ataxia and DNA Structure in Health & Disease” organized by All India Institute of Medical Sciences, New Delhi, India during April 11-13, 2015.

M. Kaushik, A. Singh, & S. Kukreti made poster presentation on “Structural Polymorphs of a Quasipalindrome Located in NEGR1 Oncogene” in “ACBR Symposium on Frontiers in Biomedical Research -2015” during October 29-31, 2015.

M. Kumar, M. Kaushik, & S. Kukreti, made poster presentation on “Interaction of an Electrochemical Redox Indicator New Methylene Blue with DNA Using Biophysical Techniques” in the International Conference on “Materials Science & Technology 2016” organized at Conference Centre, University of Delhi, Delhi, India during March 01-04, 2016.

C. Kumari, S. Pavitra, D Kumar, K. Karpurmanjari, & A. Bhadurimade poster presentation on “Predicting Unique Motifs Using Data Mining Techniques in the Proteome of Mycobacterium Tuberculosis” in the 5th Indian Peptide Society Symposium during September 24-25, 2015.

S. Kukreti, M. Kaushik, & A. Singh made poster presentation on “A Novel Parallel Triple Stranded G-Quadruplex Formation in Promoter Region of Human Myosin (MYH7) Gene [ORAL]” in the International Congress on ‘Friedreich’s Ataxia and DNA Structure in Health & Disease’ organized by All India Institute of Medical Sciences, New Delhi, India during April 11-13, 2015.

A. Pathak, C. Kumari, P. Selvakumar, P. Jaiswal, P. Sinha, A. Parmar, A., & A. Bhaduri made poster presentation on “Tuberculosis Co-Morbidities and Immunopathogenesis” in the Symposia on ‘Unique Protein Motifs: The Mycobacterial Slice’ organized by Keystone Symposia during February 28-March 3, 2016.

### **Inter Institutional Collaboration**

CIC continues to work on MoUs with

- STPI: Establishing an Information Technology Park at Delhi University.
- PHD Chamber of Commerce & Industries: IT Mahaabhiyaan.
- IIT Bombay: Established the North Zone nodal centre of e-Yantra at CIC with colleges of Delhi as members to promote Robotics education and research.
- Tata Power Delhi Distribution Limited.
- Ministry of Railways: development of a Train Punctuality Index (TPI) and real-time monitoring system on measuring train network performance using IT and Mathematical modelling.

### **Other partners in collaboration**

National Council for Educational Research and Training (NCERT)  
Indira Gandhi National Centre for Arts (IGNCA)  
Department of Applied Sign Language, IGNOU  
Delhi Jal Board (DJB)  
Delhi Police  
Gandhi Smriti  
International Association for Volunteer Effort (IAVE)  
Indian Institute for Human Settlements, Bangalore  
Goonj, Delhi  
Swecha, Hyderabad  
Ek Gaon, Delhi  
Agastya International Foundation, Bangalore  
Prayas  
Noida Deaf Society (NDS)  
Katha, New Delhi  
Central Board of Secondary Education (CBSE)  
Directorate of Education  
IGIB

M.Sc. (Mathematics Education) course has been conceptualized under Meta University. The course is jointly delivered by the CIC, University of Delhi and AKJ Mass Communication and Research Centre, Jamia Millia Islamia.

In fulfilment of the B.A. Hons. (Humanities and Social Sciences), under the Meta College concept, CIC has active participation and linkages with colleges within Delhi University.

**Faculty Strength:** Permanent: 26; Visiting Professor: 02+1; 02 on deputation

### **Other Significant Information**

Director, CIC represented University of Delhi in the Academic Delegation that accompanied the President of India, Shri. Pranab Mukherjee to Israel, Jordan and Palestine in October, 2015.

### **MoUs signed by CIC on behalf of DU with**

Hebrew University of Jerusalem  
IDC, Herzliya  
Ben Gurion University, Negev  
Weizmann Institute of Science  
Isra University, Jordan

## **COMPUTER CENTRE**

During the last one year, Delhi University Computer Centre (DUCC) further strengthens ICT infrastructure and services at University of Delhi. As an epicenter of all the IT related resources, DUCC serve the Internet and other requirements of the University. Network was planned and maintained to ensure maximum availability of network and services running on it. All the associated colleges continue to use Authentication Services to facilitate faculties

and students to use internet services in compliance with Department of Telecommunications guidelines. Wi-Fi system installed at colleges enables internet access to all students across a variety of devices like laptop, smart phones, tablets etc. The Wi-Fi facility in colleges has enabled the students to access internet provided by the University and share the knowledge among them.

Apart from day-to-day activities related to network, website, training etc., various new initiatives were taken by DUCC to meet the current requirement of the University ICT. Some major projects currently running and maintained by DUCC and new initiatives are as follows:

**Bandwidth Upgradation from 1 Gbps to 10 Gbps:** The bandwidth utilization at both North & South Campus and associated colleges was utilized to its full capacity. The National Knowledge Network (NKN) was requested to accommodate the additional bandwidth requirements. The same resulted in increase of bandwidth from 2 Gbps to 10 Gbps at North Campus. University of Delhi is among the highest utilizer of NKN resources across the country. The increase in bandwidth at South Campus will also be taken up with NKN in near future.

**Campus wide Wi-Fi at both North and South Campuses with AAA Authentication:** Campus wide Wi-Fi was successfully launched and running across both North and South Campus. The service is available to faculty, student and staff of the University. At present all the faculty, staff and students who want to avail the Wi-Fi facility have been provided campus wide Wi-Fi access with individual login and password. The Wi-Fi setup has been built to have Authentication, Authorization, and Accounting (AAA) at individual internet user level. More than 6000 users already availed the Campus Wi-Fi facility and the count is increasing day by day.

**Logging of Internet Traffic:** As per the guidelines of Department of Telecommunications, any organization needs to maintain the internet traffic logs for the past 6 months. DUCC continues to use the logging mechanism wherein all the network traffic including the Wi-Fi traffic is being logged for individual users.

**Wi-Fi Network Monitoring in Place for Proactive Monitoring:** In order to proactively monitor the Wi-Fi network, the monitoring hardware is put in place which can help in proactive troubleshooting and help in maintaining maximum uptime for Wi-Fi Network.

**College Network:** The bandwidth of 100 Mbps continued for all the off campus colleges. In view of the requirement to maintain the maximum uptime of internet services, DUCC has taken strong steps to ensure that the college VPN connectivity should be in ring architecture. In case of disruption of VPN connectivity from one side the network remains available from other side of ring.

#### **Colocation Server Hosting for Critical Applications**

Examination  
Online UG Admission  
Online PG admission  
Online Recruitment  
BMS admission  
Virtual Class Room  
Cluster Innovation Centre  
DU Community Radio  
Library Software (St. Stephens College)  
Delhi University Library System  
Braille Library  
School of Open learning

Virtual Learning Environment (vle)  
Enrollment Data Management System (EDMS)

**DUCC carried out the Live Webcasting and Hosts the Videos**

Annual Convocation  
President of India Address on “Parliament and Policy Making”  
Archives of various past events

**E-Journals, Websites and Department Websites Launched**

e-Publishing on CPPP Portal  
The Delhi University Journal of Undergraduate Research and Innovation  
The Delhi University Journal of the Humanities and the Social Sciences  
Delhi University Computer Centre <http://ducc.du.ac.in>  
Alumni Edition 3 – <http://alumni.du.ac.in>  
Delhi University Womens’ Association (DUWA) <http://duwa.du.ac.in>

**Web Based Applications Maintained and Developed**

Central Placement Cell Student & Company Registration 2015-16 ([http:// placement.du.ac.in](http://placement.du.ac.in))  
Foreign Students’ Registration 2015-16 (<http://fsr.du.ac.in>)  
Alumni Donation Form (<http://alumni.du.ac.in>)  
College MIS

**SBI Payment Gateway Integrated**

Undergraduate Admissions 2016  
Post Graduate Admissions 2016  
B.Ed./B.El.Ed./CIC Admissions 2016  
Teaching Recruitment Application  
Non-Teaching Recruitment Application  
Central Placement Cell – Student Registration Payment  
Teaching & Non-Teaching recruitment Applications for various colleges

**Campus Wide Software**

DUCC continue to provide the following Network License Software for the use of DU faculty, staff, research scholars, PG & UG Students:

SPSS V 22 + AMOS (Windows 32 bit & 64 bit, Unix and Mac platform)  
Matlab R2014b (Windows 32 bit & 64 bit, Unix and Mac platform)  
Mathematica 10 (Windows 32 bit & 64 bit, Unix and Mac platform)  
Sigma Plot 12 (for Windows Only)  
Jaws Server (for Windows Only)

**Training Conducted at DUCC**

DUCC has organized various training programs for throughout the year for the faculty, staff, Research Scholars, PG students, college system administrator/ technical staff covering all the verticals starting from the basic to advance courses in Excel, Access, SPSS, Mathematica, Matlab, Web Designing which are useful for teaching, research tools, and project taken by the students.

### **Regular Activities**

Apart from new initiatives, Delhi University Computer Centre (DUCC) designs and administer India's biggest educational IT network feeding more than 15000 devices through wired network and more than 1.5 lakh users over Wi-Fi for Internet needs as on date through National Knowledge Network (NKN).

### **DUCC Managing University of Delhi Core IT Infrastructure**

Data Centre with more than 100 active devices including Servers, Core switches, Zonal switches, Routers, UTM devices, Storage etc.

Wired equipment comprising of more than 400 network switches (and increasing).

Wi-Fi equipment comprising of 100+ switches and 500 wireless access points.

Fibre optic cable network of 43 kilometres laid across both campuses.

Servers hosting different applications like College and Department website along with the University main website, DNS, Proxy, Email, Payment Gateway, License and Webcast server.

Colocation servers for Examination, Administration, Finance, School of Open Learning, Library catalogue and Braille software etc.

DUCC has more than 1500 members comprising of PG students, Research Scholars, Faculties and staff who can avail internet and printing services free of cost.

DUCC is also actively doing/providing Content Management of DU website, Technical Support & Regular updates on DU Facebook Page, Web Hosting services for Colleges/Departments/Centres, Faculty Members Web Hosting Services. Apart from Network and Website designing and maintenance, DUCC has successfully provided technical support and hosted videos for events such as Public Lecture series, Studio lectures, Annual Convocation etc.

The near future plans of DUCC include virtually combining the Campus and College Wi-Fi so that users' remains connected to internet irrespective of the location. This will ensure seamless connectivity for end users.

## **D.S. KOTHARI CENTRE FOR SCIENCE, ETHICS AND EDUCATION**

### **Major Activities and Achievements**

The activities of the Centre include organising workshops, talks, seminars, conferences, lectures etc. and bringing out working papers. During the reporting period two working papers were published. They organized a visit by Dr. Karen Valentin, Associate Prof. from Aarhus University, Copenhagen, and Head of the Department of Educational Anthropology from October 3-13, 2015. She presented a research paper on "Educational Migration to Denmark" at the Sociological Research Colloquium, Department of Sociology on October 9, 2015, and informally interacted with students and faculty at the Department.

### **Publications**

Chakravarty, A. (2015-2016). Working Paper I: Curriculum in everyday practice.

Choudhury, P. (2015-2016). Working Paper II: A space sans fear: Working of an alternative school.

### **Research Projects**

Prof. Meenakshi Thapan, Research and Development Scheme from University of Delhi, 2015-2016, entitled "Educating India: Possibilities for Curricular Change", Rs. 1.1 Lakhs.

### **Conference Organized**

D.S. Kothari Memorial Lecture organized in collaboration with the Delhi School of Economics on “What Does Ordinary Ethics Look Like? Reimagining Everyday Life” by Prof. Veena Das, Krieger Eisenhower Professor of Anthropology, Johns Hopkins University held at Vivekananda Hall, Delhi School of Economics, University of Delhi on July 29, 2015.

Co-hosted the planning of a workshop on “Implementing Secular Ethics in the Elementary School Curriculum” that was held with 25 school teachers and resource persons at the Springdales School, Pusa Road on January 19, 2016.

A follow-up workshop on “Implementing Secular Ethics in the Elementary School Curriculum” was held with school teachers and resource persons at the International Guest House, Delhi University on March 16, 2016.

### **Inter Institutional Collaboration**

Organized the D. S. Kothari Memorial Lecture in collaboration with the Delhi School of Economics, University of Delhi held at Vivekananda Hall, Delhi School of Economics.

Organized workshops in collaboration with Springdales School, Pusa Road, New Delhi held at Springdales School on January 19, 2016 and at University of Delhi on March 16, 2016.

## **DEVELOPING COUNTRIES RESEARCH CENTRE**

### **Major Activities and Achievements**

Developing Countries Research Centre (DCRC) has been one of the pillars of research analysis in University of Delhi. It took shape on 20 April 1993 under the Board of Interdisciplinary Programme through Ordinance No. XV-A by University of Delhi. The idea got a platform through the cooperation of teachers and researchers from several Departments and Colleges of University of Delhi engaged in studying problems of the developing countries of Asia, Africa and Latin America in a comparative perspective.

Since its inception, the Centre has organized major national and international seminars and conferences on themes of significant interest, sometimes in collaboration with prestigious institutions. In 2015-16, the Centre conducted the following activities:

The first National Social Science Colloquium was held on 16-17 April 2015 on the theme, “Researching the Contemporary India”. It emphasized on the need of the Indian Society amidst the new digital capabilities cementing the distances and changing the adapted spaces of the world. It focused on wide range of areas including civic and political studies, cultural studies, resource and people’s movements, environmental studies, social policy, education. The Centre organized a lecture by Dr. Himanshu Roy, an eminent Social Scientist and Fellow, Nehru memorial Museum and Library, Teen Murti, New Delhi on the topic “Subaltern Movements in Contemporary India” on 8 January 2016.

A day-long seminar was organized on ‘New Directions in Indian Polity: The Way Forward’ on March 11, 2016. Prof. Yogesh Atal, former Principal Director, UNESCO was the Keynote speaker and other significant attendees include former Vice Chancellor of University of Delhi, Prof. Dinesh Singh, Prof. C.S. Dubey, Director, SOL, Prof. A. S. Narang (IGNOU), Ms. Nidhi Kulpati (NDTV) and Mr. Punya Prasun Bajpai (AajTak). The seminar dealt with issues that included trajectory of Indian polity, diversity, pluralism, democracy and media.

10<sup>th</sup> Pablo Neruda lecture was organized by the Centre and delivered by Prof. Brij Maharaj, eminent social scientist of international repute on the topic, “Sports Megaevents and Human Rights Violations: Experiences from India, Brazil and South Africa” on March 26, 2016.

### **Research Projects**

Centre Project (Prof. S.K. Choudhary), UGC Area Studies Programme Project, 2014-2019 entitled “South Asia”, Rs. 51 Lakh.

### **Conferences Organized**

National Social Science Researchers Colloquium held at Committee Room, Institute of Lifelong Learning, University of Delhi, Delhi on April 16-17, 2015.

Seminar organized on “New Directions in Indian Polity: The Way Forward” held at Committee Room, Institute of Lifelong Learning, University of Delhi, Delhi on March 11, 2016.

### **Inter Institutional Collaboration**

Collaborated with School of Open Learning (SOL) to organize a seminar on “New Directions in Indian Polity: The Way Forward” held at Committee Room, Institute of Lifelong Learning, University of Delhi, Delhi on March 11, 2016.

**Faculty Strength:** Director (Honorary): 01; Fellows (Honorary): 28

## **INSTITUTE OF INFORMATICS AND COMMUNICATION**

### **Major Activities and Achievements**

The Institute has been instrumental in setting up the University Information Management System (UIMS). Institute of Informatics and Communication (IIC) has been developing and managing enterprise applications for online UG and PG admissions, online recruitment for teaching and non-teaching staff, Human Resource Management, Finance Management, document management, college management etc. and currently student life cycle management is being implemented. The Institute organized various activities such as, Industrial Lecture Series, in which eminent persons visited the institute to deliver specialized lectures on current trends in the IT industry sector. The Institute’s faculty actively presented their research work in various platforms like National/International conferences, workshops. The Placements activity in this year like earlier years has been actively pursued resulting in ~ 40% placement in the first round. Many top rated IT industries are coming for the campus placement. Industries visiting the Institute this year are Snapdeal, Zillious Solutions, Aricent Technologies, Hughes Systique, QA Info Tech etc.

### **Honors/Distinctions**

Ms. Shikha Khanna awarded Capt. Anuj Nayyar Memorial Gold Medal-2015 by University of Delhi.

### **Research Projects**

Research and Development Scheme from University of Delhi, 2015-2016 entitled “Development of Open Source Repository for Delhi University: DU Source”, Rs. 3.0 Lakhs.

### **Conferences Organized**

Workshop on “Quantitative Studies of Growth, Diversification and Globalization of S& T” held at S.P. Jain Auditorium, University of Delhi, South Campus, New Delhi on January 08, 2016.



Workshop on “Enterprise Development in Python” held at S.P. Jain Auditorium University of Delhi South Campus, New Delhi on January 16, 2016.

Workshop on “Everything You Wish to Know About the Memristor but are Afraid to Ask” by Professor Leon Ong Chua, University of California, USA held at Bio-Tech Centre Auditorium University of Delhi South Campus, New Delhi on February 05, 2016.

Workshop on “Convert your Research into Product” by Leave a Nest Co. Ltd., Global Platform Development Div. Japan held at S.P. Jain Auditorium University of Delhi South Campus, New Delhi on March 01, 2016.

**Faculty Strength:** Permanent: 2

### **Other Significant Information**

The IIC is a nodal point for South Campus and its associated colleges for providing ICT services including Internet, Database, and Hosting, etc.

The IIC has been providing training to the college teachers and students on open source technology, its usage and implementation.

IIC has been a prominent entity to develop; host and providing solutions based on open source technologies.

## **INSTITUTE OF LIFELONG LEARNING**

### **Major Activities and Achievements**

The academic year 2015-16 was characterized by academic activities involving teachers, students and experts from multiple disciplines. The website of Institute of Lifelong Learning (ILLL), vle.du.ac.in was upgraded and made more user-friendly. Presently, the website has a repository of more than 900 e-lessons, 25000 e-quizzes, besides sixty e-lectures, interviews and performances. New material was also added under NME-ICT project granted by the MHRD.

Under the new initiative of Professor Shormishtha Panja, Director, ILLL, four workshops were held for ILLL Fellows and teachers of the colleges on the creation of MOOCs (Massive Open Online Course). These workshops had as resource persons Ashwani Sharma, Head of Google India, Prof. Andrew Thangaraj and Prof. Prathap Ramadoss of IIT Madras and Dr. Gurpreet Singh Tuteja, Zakir Hussain College, University of Delhi. On 16 February 2016, a MOOC in English named “The Renaissance and Shakespeare” prepared by Professor Shormishtha Panja, Director, ILLL and Manila Kohli, Fellow in English, ILLL, was inaugurated. Steps have been taken to prepare MOOCs in other disciplines.

There was a special focus on the dissemination of ILLL e-resources among the teachers and students of the University of Delhi. For this purpose, seven capacity-building workshops in English, Political Science, Mathematics, History, Commerce, Hindi and Computer Science were organized from January 15 – March 30, 2016. The most notable feature of these workshops was to invite students and teachers as equal stakeholders and to get their feedback on how to improve the site. The response was overwhelming. The feedback from participants has been implemented in the creation of e-content.

The website of ILLL has been visited by more than two lakh learners. The online queries of students are attended to promptly. The uploaded e-material does not supplant classroom teaching. It opens up new horizons of learning with the addition of maps, animations, visuals, graphs, audio links, web links etc. and democratizes the learning platform as all material on the ILLL vle.du.ac.in site is password free and can be accessed anytime, anywhere. An updated brochure outlining in detail all ILLL activities has been published. At the individual level, academics at the ILLL attended workshops and conferences, presented papers and published books and articles.

### **Honours/Distinctions**

Prof. Shormishtha Panja, Director, ILLL was honoured with the Mayers Fellowship at the Huntington, USA, October-November, 2015.

Dr. Amrit Kaur Basra, Academic Secretary, ILLL and Deputy Dean, Foreign Students Registry is holding Tatyá Tope Chair at Cluster Innovation Centre, University of Delhi.

Dr. Basra wrote script of film *Nanak Shah Faqir*, (released worldwide in 2015) which has been given Nargis Dutt Award for best film on National Integration, 2015 by the Ministry of Culture, Government of India.

### **Publications**

Basra, A.K. (2015). *Amritkaurbasra communal riots in the Punjab, 1923-1928*. New Delhi, Delhi: Shri Kala Prakashan.

Basra, A.K. (2015). *Press and politics in the Punjab, 1860-1905*. New Delhi, Delhi: Shri Kala Prakashan.

Khanna, N., Kumar, V., & Kaushik, S.K. (2015). Vanishing moments of hilbert transforms of wavelets. *Poincare Journal of Analysis and Applications*, 2015(2), 115-127.

Khanna, N., Kumar, V., & Kaushik, S.K. (2015). Approximations using hilbert transform of wavelets. *Journal of Classical Analysis*, 7(2), 83-91.

Lal, M., Mohan, C., Sharma, E.K., Narula, D.K., & Basra, A.K. (2015). *Gender and diversity: Canada India and beyond*. New Delhi, Delhi: Rawat Publications.

Panja, S. (2015). Forever fluid. Guest Column. *The Week: Special Issue Shakespeare*, 400, 78-80.

Panja, S. (2015). Vexing questions of postcolonial hybridity, location, authenticity and realism in aravindadiga's the white tiger. In R.K. Agnihotri, C. Benthien, & T. Oranskaia (Eds.), *Impure languages: Linguistic and literary hybridity in contemporary cultures*. Delhi, Delhi: Orient Black Swan.

Panja, S. (2016). Intercultural theatre and Shakespeare productions in Asia: India. In S. Liu (Ed.), *Routledge handbook of Asian theatre* (pp. 504-508). London, New York: Routledge.

Sharma, S.K., & Kaur, G. (2015). *Business mathematics*. New Delhi, Delhi: International Book House Pvt. Ltd.

Sharma, S.K., & Kaur, G. (2016). *Business mathematics and statistics*. New Delhi, Delhi: International Book House Pvt. Ltd.

### **Research Projects**

Prof. Shormishtha Panja, Short-Term Fellowship from The Huntington, USA 2015-2016 entitled “Construction of a New Audience for Shakespeare: Boydell and Bengal”, USD 8000.

Dr. Asha (PI), Dr. Rohini Arya (Co-PI), Dr. Pooja Sharma (Co-PI) & Dr. Gurmeet Kaur (Co-PI), DRC-03-Star Innovation Project from University of Delhi entitled “Environmental Impact Statement: Clean Energy from Waste with Microbial Fuel Cells”, Rs. 3.36 Lakhs.

Dr. Shagufta, Research and Development Scheme from University of Delhi, 2015-2016 entitled “Contextualizing the Indian State in the Post Liberalized Era- A Study on the Perspectives of Welfarism in Policy Orientations,” Rs. 1.5 Lakhs.

Prof. Shormishtha Panja (PI), Prof. R.C. Kuhad (Co-PI), Mr. R.K. Vyas (ICT Coordinator), & Dr. Amrit Kaur Basra (Academic Secretary, NME-ICT), NME-ICT project from MHRD, 2015 entitled “Creation of E-Content in the Disciplines of History, Commerce, Mathematics, Botany, Economics and Zoology”, Rs. 2.0 Crore.

### **Presentation in Conferences**

Prof. Shormishtha Panja delivered the plenary lecture on “Boydell and Bengal: Illustrations of Shakespeare” at the International Conference on “Translating Culture: Society, History, Politics” held at West Bengal State University, Kolkata during March 09-11, 2015.

### **Dr. Amrit Kaur Basra**

Presented paper “Sikhism and Gender” in “The Influence of Religion on the Place of Women in the Society” organized by Missionszentrale der Franziskaner held at IIC on January 09, 2016.

Presented paper “One People Two Nations: Diasporic Sikh Community in Canada and Ties with India” at the International Conference on “Diaspora and International Migration in Development: Comparative Global Experience” organized by OID, New Delhi in collaboration with CAS-School of International Studies, JNU during January 11, 2016.

**Dr. Shagufta** presented a paper on “India in a Globalized World - Reflections on Hegemony, Sovereignty and Social Reality” at 56th All India Political Science Conference on “Reinventing Politics in India” organized by Political Science Department, BHU, Varanasi during October 25-27, 2015.

**Dr. Varinder Kumar** delivered talk on “Fusion Frames and Related Concepts in Banach Spaces” in National Workshop on “Analysis, Differential Equations and Applications” organized by Mohan Lal Sukhadia University, Udaipur during February 25-27, 2016.

### **Inter Institutional Collaboration**

Development of two courses under MOOCs with NPTEL (IIT-Madras) in process.

NME-ICT project in collaboration with MHRD for creation of e-contents in 6 disciplines (History, Commerce, Mathematics, Botany, Economics and Zoology).

**Faculty Strength:** Advisor (ad hoc): 1; Fellows (deputation): 3

## INTERDISCIPLINARY CENTRE FOR PLANT GENOMICS

### Activities and Achievements

In their efforts to sequence wheat genome as part of International Wheat Genome Sequencing Consortium, the primary task of the Interdisciplinary Centre at University of Delhi South Campus was to generate BAC end sequence data from both the ends of these BACs using Sanger technology. Till date, sequencing of 1,30,848 BAC clones has been performed from both the ends using T7 (forward) and a custom designed reverse primer, generating 2,61,696 sequences, with 2-3% error rate. In total, nearly 150 Mb of wheat genomic sequences having an average read length of ~550 bp per BAC end have been generated. After quality assessment of these BAC-end sequences, these data have been analyzed for repeat identification, gene content and functional annotation, identification of SSRs and compared with model grass genomes.

### Honors/Distinctions

#### Prof. J.P. Khurana

Awarded Dr. B.P. Pal Memorial Lecture Award by the National Academy of Sciences India (NASI), July, 2015.

Awarded Lifetime Achievement Award by the Sci Genom Research Foundation during the NGBT Conference held at Hyderabad, October, 2015.

Appointed as Member of the INSA Core Committee for DST-INSPIRE Programme from January, 2016 to December 31, 2020.

Appointed as Member of Recombinant DNA Advisory Committee (RDAC) constituted by the Department of Biotechnology, Government of India, New Delhi, January, 2016 onwards.

Appointed as Member, Executive Council of the Indian Society of Plant Physiologists, New Delhi, March, 2016 onwards.

### Publications

Jain, D., Khandal, H., Khurana, J. P., & Chattopadhyay, D. (2016). A pathogenesis related-10 protein CaARP functions as aldo/keto reductase to scavenge cytotoxic aldehydes. *Plant Molecular Biology*, 90(1), 171-187.

Jaiswal, V., Gahlaut, V., Mathur, S., Agarwal, P., Khandelwal, M., Khurana, J.P., Tyagi, A.K. Balyan, H.S., & Gupta, P.K. (2015). Identification of novel SNP in promoter sequence of TaGW2-6A associated with grain weight and other agronomic traits in wheat (*Triticum aestivum* L.). *PLoS ONE*, 10(6), e0129400 (15 pages).

Kumar, V., Singh, A., Mithra, S.V.A., Krishnamurthy, S.L., Parida, S.K., Jain, S., Tiwari, K.K., Kumar, P., Rao, A.R., Sharma, S.K., Khurana, J.P., Singh, N.K., & Mohapatra, T. (2015). Genome-wide association mapping of salinity tolerance in rice (*Oryza sativa*). *DNA Research*, 22, 133-145.

Tiwari, K.K., Singh, A., Sasmita Pattnaik, S., Rao, G.J.N., Khurana, J.P., Singh, N. K., & Mohapatra, T. (2015). Identification of a mini-core set from Indian rice germplasm collection. *Plant Breeding*, 134(2), 164-171.

### On-Going Research Projects

Prof. J.P. Khurana, DBT, 2015-2020 entitled "Functional Validation of Genes Involved in Regulating Transition to Flowering in Rice" as part of a Multi-Institutional Network Project "Functional Characterization of Genetic and Epigenetic Regulatory Networks Involved in the Reproductive Development in Rice", Rs. 1.40 Crore.

### **Conferences Organized**

Prof. J.P. Khurana organized and participated in “INSA-TWAS” sponsored plenary lectures on the occasion of National Science Day held at University of Delhi South Campus, New Delhi on February 29, 2016.

### **Presentation in Conferences**

#### **Prof. J.P. Khurana**

Delivered a Plenary Lecture in the “International Plant Physiology Congress (IPPC 2015)” held at JNU, New Delhi on December 11-14, 2015.

Delivered lecture (as Guest of Honor) on the occasion of “CSIR-NBRI Foundation Day” held at NBRI, Lucknow on October 25, 2015.

Delivered lecture in the workshop organized jointly by the Maharashtra Academy of Sciences & CSIR-NCL, Pune on October 29, 2015.

Delivered lecture in a Symposium to “Celebrate International Year of Light 2015” organized by INSA during its Anniversary General Meeting held at IISER, Bhopal during December 28-30, 2015.

### **Inter Institutional Collaboration**

One project is Multi-Institutional Project with 6-7 Institutes and the Coordinating Institution is University of Delhi South Campus, New Delhi.

## **UNIVERSITY SCIENCE INSTRUMENTATION CENTRE**

### **Major Activities and Achievements**

The University Science Instrumentation Center (USIC) maintains sophisticated analytical instruments for the researchers and faculty members in various science departments of the University and its affiliated colleges. The center is open 6 days a week (9:00 am to 5:30 pm). Trained engineers from the companies operate the high-end sophisticated instruments.

### **Conference Organized**

Training program for Lab Staff from University of Delhi, Science Colleges and Departments during January 22-February 11, 2016.

Workshop on “SEM, Critical Point Dryer and Biological Sample Preparation” for Under-Graduate students of Daulat Ram College during June 18-19, 2015.

Training program on “TEM Sample Preparation” for research scholars during January 20-21, 2016.

Under-Graduate Awareness Program for students of Swami Sharddhanand College held on February 25, 2016.

Under-Graduate Awareness Program for Students of Kirori Mal College held on September 18, 2016.

Students from various colleges doing B.Sc. (Physics) participating in a Refresher Course were trained on the “Characterization of Materials by X-Ray Diffraction” during February 23-24, 2016.

### **Other Significant Information**

USIC maintains the following instruments for researchers:  
FEI High Resolution Transmission electron microscope  
Gatan/Quorum – TEM sample preparation equipment  
Sentech Variable angle and variable wavelength Ellipsometer  
Bruker High resolution X-ray diffraction  
Single crystal X-ray diffractometer from M/s. Oxford Diffraction, UK  
Jeol 400 MHz Nuclear Magnetic resonance  
Jasco Circular Dichroism spectro-polarimeter  
Waters Differential Scanning Calorimeter  
Perkin Elmer FTIR with ATR and specular reflectance attachment  
CHNSO Analyser from M/s. Elementar  
Rigaku Rotating anode X-ray diffractometer  
Renishaw Laser Raman Spectrometer  
Jeol Electron Spin resonance (ESR) spectrometer  
Perkin Elmer DTA-TGA, and DSC instruments  
Millipore low conductivity water  
Atomic absorption spectrometer (graphite furnace)  
Shimadzu Differential thermal analyzer (From Chemistry Dept.)  
Cary Eclipse Fluorescence spectrophotometer (From Chemistry Dept)  
Horiba JobinYvon Fluorescence lifetime spectrometer (From Chemistry Dept.)  
900 Litre Portacryo + 600 liter Liquid nitrogen (LN<sub>2</sub>) storage tank for North campus  
A separate Liquid nitrogen storage facility for south campus has been set up  
B.E.T. surface area analyzer  
Vibrating sample magnetometer with low temperature attachment  
Photo luminescence set up (325 nm, 488 nm with temp. attachment (-196 to 500<sup>0</sup> C)  
Impedance spectroscopy with frequency and temperature variation is installed.  
X-ray Diffractometer – Pan analytical Equipment with thin film attachment  
Agilent Mass spectrometer  
Critical Point Dryer  
Jeol scanning electron Microscope (SEM) with EDS, Peltier temperature stage

## **WOMEN'S STUDIES AND DEVELOPMENT CENTRE**

### **Major Activities and Achievements**

Women's Studies and Development Centre (WSDC) taught two interdisciplinary Courses for Post Graduate and Research Students, apart from conducting two National Workshops -“Feminist Theories & Debates” in April, 2015 and a National Workshop on “Feminist Theories & Debates” February-March, 2016. A Refresher Course for University teachers was organized in December, 2015. In November, WSDC had an Interface with UGC Standing Committee as a result of which the Center was upgraded to a Center of Advanced Studies. A Gender Sensitization Workshop for University of Delhi Faculty was held in November, 2015 and a meeting with Advisory Committee of University of Delhi, in December, 2015. WSDC hosted a three-member team of UGC Sri Lanka in January, 2016 and organized Women's Day Celebrations: *Women's Stories* which included dance recital by Shovana Narayan and poetry reading by eminent feminist poets. The editing of the anthology *Locating Gender in New Middle Class in India*, has also been completed and submitted to IIAS, Shimla for publication.

### **Honors/Distinctions**

WSDC has been granted Centre for Advanced Studies status by the UGC, with effect from April 01, 2016.

**Prof. Jaya S. Tyagi**

Invited as Guest of Honour to speak on “Gender and Society” in JAGRITI'16, the Annual Celebration of Women's Development Centre, Jesus and Mary College, University of Delhi held on March 09, 2016.

Invited as Chief Guest for inaugurating the “Women’s Development Centre” held at Maharaja Agrasen College on October 07, 2015.

Invited as Chief Guest for the Inauguration of the “Women’s Development Centre” held at Sri Ram College of Commerce on October 16, 2015.

Dr. Manjeet Bhatia invited as a Resource Person in the UGC short course on “Gender Sensitization & Diversity Management” organized by Guru Nanak Dev University, Amritsar on March 07, 2016.

**Publications**

Tyagi, J. (2015). The dynamics of the early Indian household: Domesticity, patronage and propriety in textual traditions. In K. Roy (Ed.), *Looking within, looking without, exploring households in the subcontinent through time* (pp. 137-72). New Delhi, Delhi: Primus Books.

Tyagi, J. (2016). The question of women’s ‘agency’: Women, work and womesticity in early textual traditions. In V. Ramaswamy (Ed.), *Women and work in precolonial India*. New Delhi, Delhi: Sage Publications.

Bhatia, M. (forthcoming). *Locating gender in the new middle class in India*.

Bhatia, M. (forthcoming). New meanings of motherhood in globalizing middle class homes in India. In M. Bhatia (Ed.), *Locating gender in the new middle class in India*.

Tewari, R. (2015). A question is produced: Manto, problematisation, partition. *Muse India*, 62(July-August).

Tewari, R. (2015). In search of kristeva's imaginary fa(mo)ther: A study of love, desire and christianity through some renaissance images. *Muse India*, 64(October).

**Research Projects**

Dr. Manjeet Bhatia (PI), & Dr. Ridhima Tewari (Co-PI), WSDC Short-term Research Project, 2016 entitled “Mall-A Gendered Space”, Rs. 1.8 Lakh.

**Conferences Organized**

National Workshop on “Feminist Theories & Debates” during April 6-10, 2015.

National Workshop on “Feminist Theories & Debates” during February 29-March 04, 2016.

**Presentation in Conferences****Prof. Jaya Tyagi**

Presented paper “Multiculturalism, Feminism and a New Epistemology: A Reading of Saadat Hasan Manto’s Oeuvre” in the International Conference on “Multicultural India: Inclusiveness & New Humanities” organized by Pondicherry University held in February 19-20, 2016.

Presented paper “Gender, Varna and Social Propriety in Early Puranic Traditions: Redefining Social Categories in Early India” in the “National Seminar on Caste and Gender” organized by Shyam Lal College, University of Delhi during February 19 - 20, 2016.

Presented paper “Representations of Women in Early Historic Traditions” in a Seminar on “Indian History and Culture” organized by PGDAV College, University of Delhi held on March 01, 2016.

Presented paper “Strategic Inclusions of the ‘Other’: Reconstructing Social Histories from Puranic Traditions” in a Seminar on “Marginal Categories” organized by Sri Venkateswara College, University of Delhi held on March 15, 2016.

Dr. Manjeet Bhatia presented papers “Domestic Violence-A Study” and “Gender and Intersectionality” in the UGC short terms course on “Gender Sensitization & Diversity Management” organized by Guru Nanak Dev University, Amritsar on March 7, 2016.

Dr. Ridhima Tewari presented paper “Multiculturalism, Feminism and a New Epistemology: A Reading of Saadat Hasan Manto’s Oeuvre” in the International Conference on “Multicultural India: Inclusiveness & New Humanities” organized by Pondicherry University during February 22-23, 2016.

### **Inter Institutional Collaboration**

The Centre organized a National Workshop titled “Feminist Theories & Debates” from April 6-10, 2015. In this Workshop, 15 teachers and scholars from different Universities and institutions from all over India came to participate. Prof. Bharati Baveja, Director, WSDC inaugurated the National Workshop and welcomed the participants. Inaugural lecture was delivered by Prof. Indu Agnihotri. Apart from Liberal, Radical and Socialist Feminism, the Workshop discussed the issues pertaining to Feminist Jurisprudence and Psychoanalysis and Feminism. In addition to WSDC faculty, resource persons were invited from various other institutions, including Law School, University of Warwick, UK.

WSDC hosted a three-member team of UGC Sri Lanka on the January 28, 2016. WSDC faculty and the Sri Lankan guests exchanged ideas with regard to issues of gender sensitization, awareness, educational systems and curricula as part of the one-day meet. The Sri Lankan team also interacted with participants of WSDC’s different courses, discussing critical topics like ragging.

A Street Play titled “Andhkaar se Ujale ki Taraf” was performed by Parindey theatre group on January 28, 2016. Based on the topic of female infanticide, as well as on the need and presence of gradual change away from such practices, the play engaged with young students and also staff present in the lawns of the Academic Research Building.

The Centre organized a National Workshop titled “Feminist Theories & Debates” from February 29 - March 04, 2016. A total of 19 faculty members and scholars from different Universities and institutions across India came to participate in the Workshop. Prof. Jaya S. Tyagi, Director, WSDC inaugurated the National Workshop and welcomed the participants. Apart from theories of Feminism(s), the Workshop especially focused on Psychoanalysis and Feminism. In addition to WSDC faculty, resource persons were invited from institutions such as Jamia Milia Islamia, Ambedkar University, Lady Sri Ram College, among others.

A programme titled “Women’s Stories” was conducted by the WSDC as a tribute to women and their personal journeys through artistic forms of poetry and dance on March 10, 2016. The programme was held at the CIE Auditorium. Well-known writer/activist Kamla Bhasin, along with Dr. Sukrita Paul Kumar and Dr. Savita Singh



shared their poetry on the occasion, while Ms. Shovana Narayan and troupe performed a dance-recital as part of the celebrations.

**Faculty Strength:** Permanent: One Director, One permanent faculty; Ad-hoc: 1

### **Other Significant Information**

The Centre conducted its 17th Refresher Course in Women's Studies in December, 2016 structured around the theme of Gender and Space. The list of the Resource Persons included, Prof. Saraswati Raju, Prof. Soumendra Patnaik, Prof. Jaya S. Tyagi, Dr. Soumyajit Bhattacharya, and Dr. Manjeet Bhatia among others. The Course was attended by teachers from various colleges and universities of India, trained in disciplines as varied as sociology, economics, English, history and even management. The interdisciplinary nature of the Course was furthered by the diverse set of lectures delivered by different resource persons, as they explored the interesting relationship between Gender and Space. WSDC has been conducting two certificate courses – Certificate Course in Gender and Society (starting January, 2016) and Advance Certificate Course in Gender Studies (starting in February, 2016). The primary aim of the Gender and Society course is to introduce an interdisciplinary understanding of gender issues, particularly in context of the Indian sub-continent. The Advance Course aims at giving training in conducting research in gender studies to M.Phil. and Ph.D. scholars.

## **WORLD UNIVERSITY SERVICE HEALTH CENTRE**

### **Major Activities and Achievements**

The World University Service (WUS) Health Centre came into existence on March 19, 1955. A number of new facilities have been added over the years. The WUS Health Centre (North Campus) caters to approx. 1 Lakh beneficiary population, i.e., regular employees, retired employees and their dependents, resident and non-resident students and Ad hoc and contractual staff. The total OPD attendance for the year 2015-2016 was 142791 and the total clinical services (Physiotherapy, Pathology Lab., ECG, Nursing, Dressing and X-Ray) was 173211, i.e., about 800 patients per day, 6 days a week. These numbers are ever increasing.

WUS Health Centre (South Campus) caters to approximately a clientele of 9000 beneficiaries. Approximately 100 patients avail W.U.S. Health Centre (South Campus) facilities per day (six days a week). Health Centre (East Delhi) caters to approximately a clientele 3300 beneficiaries. Approximately 40 patients avail WUS Health Centre (East Delhi) facilities per day (five days a week). WUS Health Centre (West Delhi) caters to approximately 3000 beneficiaries. Approximately 50 patients avail WUS Health Centre (West Delhi) facilities per day (five days a week).

Total OPD attendance for the financial year April 01, 2015-March 31, 2016.

North Campus	:	142791
South Campus	:	23973
East Delhi	:	4917
West Delhi	:	6975

Total Clinical Services for the financial year April 01, 2015-March 31, 2016.

North Campus	:	173211
South Campus	:	10178
East Delhi	:	1120
West Delhi	:	2190

WUS Health Centre sent Para Medical Staff for provision of Medical Services in National Service Scheme Camp organized by Programme Coordinator, NSS, University of Delhi at Bhagini Nivedita College, Kair (Near Najafgarh) during March 22-28, 2016. In addition to this a health Talk was also delivered for benefit of all those who attended the camp.

In addition to this Health Centre also provided emergency medical services even on Sundays in the following Tournaments/Functions organized by University of Delhi:

Annual Sports Meet "Uddan 2015" during April 01-02, 2015.

Inter College Cross Country Race (Men & Women) Tournament 2015-16 held on September 26, 2015.

Delhi University Inter College Athletic Meet (Men & Women) Tournament 2015-16 during October 28-31, 2015.

Delhi University Inter College Judo (Men & Women) Championship 2015-16 during November 05-07, 2015.

DUSU Cultural Programme during January 27-29, 2016.

Blood Donation Camp held on January 11, 2016.

Delhi University Inter College Wrestling (Men & Women) Championship 2015-16 held on January 12, 2016.

12th K.K. Luthra Memorial International Moot Court Competition during January 15-17, 2016.

International Conference at Campus Law Centre during February 12-14, 2016.

Painting Competition held on February 20, 2016.

Flower Show held on February 26, 2016.

Delhi University Inter College Taekwondo (Men & Women) Championship during March 02-04, 2016.

Delhi University Inter College Football (M) Championship 2015-16 during March 18-19, 2016.

World Health Day was celebrated in WUS Health Centre (North Campus) on April 7, 2015.

The theme of this year's World Health Day was food safety. Leaflets highlighting the issues regarding Food Safety were distributed to all the Faculties/Departments/Centers/Colleges/ Hostels which was highly appreciated by everyone. An article on Food Safety was uploaded on University of Delhi website for the information of University fraternity.

Epidemic of Dengue Fever was prevalent in whole of Delhi/NCR in September and October, 2015. Pyrethrum spray was done intensively in whole of the University Campus area and University Enclave colleges. Leaflets highlighting the issues regarding Dengue Fever were distributed to all the Faculties/Departments/Centers/Colleges/Hostels which was highly appreciated by everyone. An article on Dengue Fever was uploaded on University of Delhi website for the information of University of University fraternity.

Pictorial mapping depicting density of employees of University of Delhi and its constituent Colleges vis-à-vis availability of empanelled hospitals in those areas has been prepared. This will facilitate process of empanelment of hospitals for University of Delhi in areas where no Empanelled Hospitals exist at present.

Health checkup camps, Cardiac checkup camps have been organized from time to time in collaboration with reputed Hospitals.

### **Existing Facilities**

The WUS Health Centre (North Campus) provides relentless services for the University employees, their dependents and students. It provides OPD services from 08:00 AM to 08:00 PM, six days a week and remains open on Sundays (08:30 AM to 10.30 PM) and Gazetted Holidays (08.30 AM to 10.30 PM). It remains open throughout the day even on Holi and Diwali Holidays. It provides emergency services round the clock. It has 4 full time Medical Officers, 4 Medical Consultants on contract, 1 Medical Officer on contract, 3 Part-time Medical Officers (contract), 12 Part-time Visiting Specialists who provide Specialized services for two hours in Cardiology (thrice

per week), Neurology (once per week), Psychiatry (once per week), Orthopedics (five days per week), E.N.T. (five days per week), Paediatric (four days per week), Skin (4 days per week), Ophthalmology (thrice per week), Dental (six days per week) and Optometry (six days per week) and ECG facilities (five days per week). The center has a Pathology Laboratory, Physiotherapy Unit, X-Ray Department, Nursing Station, Dressing Room and Basic Life Support Ambulance.

Computed Radiography (CR) System with Dry Imager as an attachment of 500 mA Siemens X-Ray Machine of Siemens make was installed in Radiology Department of W.U.S. Health Centre on September 1, 2015 and at present computer processed X-Ray Films can be generated which are more accurate and reliable.

WUS Health Centre (South Campus) caters to its beneficiaries from Monday to Friday from 09:00 AM to 05:00 PM and on Saturday from 09:00 AM to 03:00 PM. It has 1 full time Medical Officer, 2 Part-time Medical Officers (contract), 1 Medical Consultant on contract, 3 Part-time Visiting Specialists who provide Specialized services for two hours in Gynecology (thrice a week), Ophthalmology (twice a week) and Dentistry (thrice a week). The center has a Pathology Laboratory, Physiotherapy Unit, Nursing Station, Dressing Room, ECG facilities and Basic Life Support Ambulance.

WUS Health Centre (East Delhi) and WUS Health Centre (West Delhi) cater to its beneficiaries from Monday to Friday from 09:00 AM to 03:00 PM. Each has 1 full time Medical Officer. Each center has a Pathology Laboratory, Pharmacy, Medical Store and Dressing Room.

## **FACULTY OF ARTS**

### **ARABIC**

#### **Major Activities and Achievements**

The Department of Arabic organized a three-day International Seminar on the topic “Indian Wisdom: Panchtantra/Kalilah wa Dimnah; Tradition, History & Culture” on 8, 9, 10<sup>th</sup> March, 2016

The Department of Arabic organized a Lecture under Prof. K. A. Fariq Memorial Lecture Series – 9 on the topic “Impact of Arabic on Indian Languages” delivered by Dr. S. Munawwar Nainar on 8<sup>th</sup> March, 2016.

The Department of Arabic organized a special International Lecture on the topic “The Role of Culture & Intellectuals in the Society” on the eve of World Arabic Day on 17<sup>th</sup> Dec., 2015. The lecture was delivered by Mr. Mohammad Salmaway, an eminent scholar from Arab Republic of Egypt.

#### **Publications**

Wali Akhtar, 2015, Taysirus Sarf (Book), One, 235 pages.

Naimul Hasan, 2015, Development of Tafsir Literature in India, Al Thaqafat ul Arabia fi al-Hind, Riyadh Kingdom of Saudi Arabia, 322-331.

Naimul Hasan, 2016, Prof. Mohammad Sulaiman Ashraf as a teacher and a writer, Thaqafat ul Hind (Arabic Quarterly), Vol. 66, 177-197 pages

Naimul Hasan, 2016, Al-Nawwab Siddique Hasan Khan: His contribution to the development of Arabic Language and Literature, Majallah al-Mazahir.

### **Research Projects**

Prof. M. N. Khan, "A Critical and Analytical Edition of Jayeze by Professor Khurshid Ahmad Fariq, UGC, Rs. 10,76,600/-

### **Seminar Organized**

The Department of Arabic organized a three-day International Seminar on the topic "Indian Wisdom: Panchtantra/Kalilah wa Dimnah; Tradition, History & Culture" on 8, 9, 10<sup>th</sup> March, 2016.

### **Conferences Presentation**

Wali Akhtar, 2016, Presented a paper on "al-hadatha al-Arabia" in a National Seminar on "Contemporary Trends in Modern Arabic Literature" held on 28-29 March, 2016 by a Center of Arabic and African Studies, JNU.

Naimul Hasan, 2016, Presented a paper on the topic "Role of Dictionaries in shaping the personality of students and scholars" in the National Seminar on "Contribution of India to Linguistic Sciences with Special Reference to Indo-Arabic Literature – An Interdisciplinary Approach" organized by the Department of Arabic, AMU, Aligarh on 02-03 March, 2016.

Mohammad Akram, 2016 Presented a paper on the topic "Hakim Ajmal Khan's Multidimensional personality and Enduring contribution" in a National Seminar on 12-13 Feb., 2016 organized by CCRUM, Ministry of Health and Family Welfare, Govt. of India in Jamia Millia Islamia, New Delhi.

### **Number of M.Phil./ Ph.D Awarded**

Ph.D. – 7

M.Phil. – 2

### **Faculty Strength**

Permanent - 7

Guest Faculty - 2

## **BUDDHIST STUDIES**

### **Major Activities and Achievements**

The Department has undertaken many academic activities during the year 2015-16. These include the initiation of the process of syllabus for the Four Year Graduate Programme, and conducting of weekly seminars/special lectures. The Department successfully conducted the educational cum field trip to Uttarakhand and three Research scholar, one Associate Professor from our department participated in The 2<sup>nd</sup> MCU International Academic Conference at Ayutthaya, Thailand.

### **Publications**

Sarao, Prof. K. T. S.. (2015). "The Dalai Lama: Person and the Institution," Dialogue, A Journal of Astha Bharati, New Delhi, vol. 16, no. 3, January-March 2015: 71-85.

Sarao, Prof. K. T. S.. (2015) "Brāhmaṇical-Hindu and Animistic Practices in Modern Cambodian Buddhism," in Thich Nhat Tu (ed.), Buddhism in the Mekong Delta, Ho Chi Minh City: Vietnam National University Press, 516-528.

Sarao, Prof. K. T. S. (2015). "Some Reflections on the Conundrum of the Decline of Buddhism in India," *History Today, Journal of History and Historical Archaeology*, no. 16, 2015: 6-17.

Sarao, Prof. K. T. S. (2016). The following entries have been published in the *Encyclopedia of Indian Religions* (editor-in-chief Arvind K. Sharma), New York: Springer (ISBN 978-94-007-1988-0), 2016: Abhidhamma Piṭṭaka; Ahimsā (Buddhism); Ajātasattu (Ajātasattu); Alchi; Ambapālī (Āmrpālī); Ānanda; Anāthapiṇḍika; Anattā (Anātman) in Buddhism; Aṅgulimāla; Aṅguttara Nikāya; Anotatta; Apadāna; Ariyasacca; Aśokāvadāna; Avalokiteśvara; Ayodhyā (Buddhism); Bimbisāra; Bodhi; Buddhavaṃsa; Buddhist Councils; Cāga (Tyāga); Cakka (Cakra); Caṅḍāla (Buddhism); Cariyapiṭṭaka; Caste (Buddhism); Date of the Buddha (Buddhist Eras); Decline of Indian Buddhism; Devadatta; Dhammapada; Dhammasaṅgahī; Dīgha Nikāya; Divyāvadāna; Ecology in Buddhism; Economics (Buddhism); Euthanasia in Indian Buddhism; Folklore in Buddhism; History of Indian Buddhism; Human Rights in Buddhism; Itivuttaka; Jātaka; Kailash; Kapilavatthu (Kapilavastu); Kassapa; Kathāvatthu; Khuddaka Nikāya; Kisāgotamī; Kuṇḍāla; Kusinārā (Kusinagara); Laṅkāvatāra Sūtra; Lalitavistara; Lumbinī; Magadha; Mahāyāna; Majjhima Nikāya; Mānasarovara; Meru in Buddhism; Moggallāna (Maudgalyāyana); Mudita; Nāgasena; Nālandā; Pajāpatigotamī (Prajāpatigautamī); Pasenadi; Paṭṭisambhidāmagga; Paṭṭhāna; Persecution in Indian Buddhism; Petavatthu; Pilgrimage in Buddhism; Pluralism in Buddhism; Puggalapaññatti; Puṣyamitra Śuṅga; Rāhula; Rahul Sankrityayan; Rāma in Indian Buddhism; Rāmāyaṇa in Indian Buddhism; Saṃgha; Saṃsāra in Buddhism; Saṃyutta Nikāya; Sāñcī (Sanchi); Sāriputta (Śāriputra); Sāvattḥī (Śrāvastī); Suicide in Indian Buddhism; Sutta-Nipāta; Sutta Piṭṭaka; Tārā, Buddhism; Thera- and Therīgāthā; Tipiṭṭaka; Udāna; Upagupta; Upālī; Vārāṇasī (Bārāṇasī); Vasubandhu; Vegetarianism in Indian Buddhism; Vesālī (Vaiśālī); Vibhaṅga; Vihāra; Vikramaśīlā; Vimānavatthu; Women in Indian Buddhism; Yamaka.

Sarao, Prof. K. T. S. (Dhammapada: Eka Vyutpattiparka Anuvāda in Hindi), New Delhi: Vidya Nidhi Prakashan, 2015 (ISBN: 978-93-80651-94-1).

### **Research Projects**

Prof. Hira Paul Gangnegi (Coordinator) and Dr. Indra Narain Singh (Deputy Coordinator). (December 2014 - July 2016) University Grants Commission, Special Assistance Programme "Centre for Advanced Study in Buddhist Studies-Phase-I", Rs. 1,65,00,000/-.

Prof. Hira Paul Gangnegi (Principal Investigator) and Dr. Indra Narain Singh (Co-Principal Investigator). (01.05.2015-31.03.2020) University Grants Commission, MHRD (NME-ICT) Production on Courseware for Postgraduate Courses in Buddhist Studies "e-PG Pathsala", Rs. 1,12,00,000/-.

### **Conference Presentations**

Prof. K. T. S. Sarao, Department of Buddhist Studies, University of Delhi: Presented a paper entitled "Buddhist and Muslim Encounters in the Eighth Century Sind," at the International Conference on Buddhist and Muslim Encounters in Premodern South Asia organized by the University of Lausanne, Switzerland, 12-13 October, 2015.

Prof. K. T. S. Sarao, Department of Buddhist Studies, University of Delhi: Chaired a session and read a paper entitled "Brāhmanical-Hinduism and Animistic Practices in Modern Cambodian Buddhism" at the International Conference on Buddhism in the Mekong Region: Its History and Development organized jointly by the Vietnam Buddhist Research Institute and the University of Social Sciences and Humanities, Ho-Chi-Minh City, Vietnam, 13-14 November 2015.

Prof. H.P. Gangnegi, Department of Buddhist studies, University of Delhi, presented paper on "Buddhism: Its beginning and continuity" on International Celebration of 2560th Buddha Jayanti and International Conference on the Lumbini Nepal: the Birth Place of Lord Buddha and the Fountain of Buddhism and World Peace on May 18-21, 2016 in Kathmandu, Nepal.

Prof. H.P Gangnegi, Department of Buddhist studies, University of Delhi presented paper on “The Contribution of Indian Buddhist Master in Origin and Development of Buddhism in Tibet”, at Lumbini Buddhist University Nepal on 24 December, 2015

Prof. K. T. S. Sarao, Department of Buddhist Studies, University of Delhi : Chaired a session and read a paper entitled “Brāhmaṇical-Hinduism and Animistic Practices in Modern Cambodian Buddhism” at the International Conference on Buddhism in the Mekong Region: Its History and Development organized jointly by the Vietnam Buddhist Research Institute and the University of Social Sciences and Humanities, Ho-Chi-Minh City, Vietnam, 13-14 November 2015.

Prof. K. T. S. Sarao, Department of Buddhist Studies, University of Delhi :Gave the inaugural speech and read a paper entitled “Xuanzang’s Da Tang Xiyuji and the Psyche of Decline of Indian Buddhism,” at the International Symposium on Xuanzang and the Silk Road organized by the Institute of Buddhist Studies, Northwest University, Xi’an, Shaanxi, China, 28-29 November 2015

Prof. K. T. S. Sarao, Department of Buddhist Studies, University of Delhi : Chaired a session and presented a paper entitled “Maritime Navigation in the Arabian Sea and Buddhism in Sind” at the International Conference of the Maritime Navigation and the Propagation of Buddhism organized by Sun Yat-sen University and the Dafo Monastery, Guangzhou, China, 12-14 January 2016.

Prof. K. T. S. Sarao, Department of Buddhist Studies, University of Delhi, Presented a paper entitled “A Critical Introduction to Vasubandhu’s Triṃśikā and His Other Works,” in the First Maitreya Youth Cultural Festival organized by the Institute of Maitreya Studies, Hong Kong, 25-28 March, 2016.

Prof. K. T. S. Sarao, Department of Buddhist Studies, University of Delhi Presented a paper entitled “Constructing a Hero’s Biographical Module: An Examination of Some Buddhist Legends” at the 3rd Annual International Conference on Humanities & Arts in a Global World, organized by the Athens Institute for Education and Research, Athens, Greece, 03-06 January 2016.

Prof. K. T. S. Sarao, Department of Buddhist Studies, University of Delhi Chaired a session and read a paper entitled “Buddhist Perspective on the Maintenance of Ecological Balance” at the Third International Dharma-Dhamma Conference on Harmony of Religions, organized by the Sanchi University of Buddhist and Indic Studies and Ministry of Culture, MP Government, Indore, 24-26 October 2015.

Prof. K. T. S. Sarao, Department of Buddhist Studies, University of Delhi Chaired a session and read a paper entitled “Bhakti Movement and the Decline of Indian Buddhism” at the Third South Asian History Conference organized by the Department of History, Punjabi University, Patiala, 16-18 October 2015

Prof. K. T. S. Sarao, Department of Buddhist Studies, University of Delhi Presented a paper entitled “Monasteries, Urbanization, and the Decline of Buddhism in India: An Examination of the Archaeological Material” at the International Conference on Buddhist Monasteries of South Asia and China organized by the Society for Buddhist Art and Archaeology, New Delhi, 07-09 December 2015

Prof. K. T. S. Sarao, Department of Buddhist Studies, University of Delhi Presented a paper entitled “Pilgrimage to Gang Rimpoche (Kailash) and Its Indian Connections” and participated in the panel discussion in the International Seminar on Trans-Himalayan Buddhism: Exploring the Cultural Space organized by the Maulana Azad Abul Kalam Institute of Asian Studies, Kolkata, 10-11 March 2016.

Prof. K. T. S. Sarao, Department of Buddhist Studies, University of Delhi Chaired a session and presented a paper entitled “Māyā’s Dream: An Examination of the Narrative in Art and Literature” at the International Seminar on Buddhist Narrative organized by the Department of Pali, S.P. Pune University, 24-26 February 2016

Prof. H.P Gangnegi, Department of Buddhist studies, University of Delhi delivered lecture on “Buddhism School of Philosophy” for ICPR sponsored five days workshop on “Critical Reflections on the Ancient Indian Schools of Philosophy in the context of Current Education System” on 19th February, 2016

Prof. H.P Gangnegi, Department of Buddhist studies, University of Delhi delivered lecture on “Emptiness and Relativity” based on “Lecture series on Buddhism and Contemporary Society” organized by IGNCA on 4th March, 2016.

Prof. H.P Gangnegi, Department of Buddhist studies, University of Delhi , delivered Lecture on “Buddhism and Islam” based on “Lecture series on Buddhism and Contemporary Society” organized by IGNCA on 26th February, 2016.

Prof. K. T. S. Sarao, Department of Buddhist Studies, University of Delhi Gave the Sectional Presidential speech entitled “Legends as Sources of History: An Examination of Legends Pertaining to the Biography of the Buddha” and chaired a session at the 48th Session of the Punjab History Conference organized by the Department of Punjab Historical Studies, Punjabi University, Patiala, 4-6 March 2016.

Prof. K. T. S. Sarao, Department of Buddhist Studies, University of Delhi Gave the Sectional Presidential speech entitled “Legends as Sources of History: An Examination of Legends Pertaining to the Biography of the Buddha” and chaired a session at the 48th Session of the Punjab History Conference organized by the Department of Punjab Historical Studies, Punjabi University, Patiala, 4-6 March 2016.

Prof. K. T. S. Sarao, Department of Buddhist Studies, University of Delhi Chaired a session and read a paper entitled “An Examination of the Different Contestations for a Share in the Gayā Dharmakṣetra: The Buddha to Nitish Kumar” at the 15th Annual Conference of the Indian Society for Buddhist Studies organized by the Department of Jainology and Comparative Religion and Philosophy, Jain Vishva Bharati Institute, Ladnun, 11-13 December 2015.

#### **Number of M. Phil./ Ph. D. Degrees Awarded**

Ph. D. : 03

M.Phil.: 11

#### **Faculty Strength**

Permanent: 10

#### **Other Significant Information**

The Department also has its own website [buddhist.du.ac.in](http://buddhist.du.ac.in). The information about the department, research students, courses offered by the department, syllabus, seminars and other events are regularly updated on the website.

## ENGLISH

### Major Activities and Achievements

The Department of English has started two new centres under the UGC- SAP III: Centre for Dalit Studies and Centre for studies in Trauma, Violence and Memory. The existing centre Centre for Academic Translation and Archiving has initiated few new projects on Travel literature and Street Literature. The department held a 3-day conference on Indian Vernaculars: Literatures, Language and Histories. Workshops on North-East studies, Translations and Dalit Literature were organized for students as well as teachers. Distinguished scholars such as Ania Loomba, Shamshur Rehman Farooqui, Torul Jatin Gajarwala, Prof. Amritjit Singh, Nigel Leask, Susan Chaplin and CM Naim delivered lectures and interacted with the students at the department. Under the Writers-in-residence programme, the department invited two distinguished writers: the multilingual playwright Abhishek Majumdar and poet and activist Tenzin Sundue. The department actively participated in restructuring the undergraduate syllabus according to CBSC norms.

### Honours/ Distinctions

Prof. Anil Aneja received National Award for The Empowerment of Persons with Disabilities (2014) from Ministry for Social Justice and Empowerment, Govt. Of India for his efforts and determination to empower the persons with special needs

Dr. Rupendra Guha Mazumdar, Associate Professor, was appointed as a Visiting Professor and Senior Fulbright Fellow at the Department of English, Suffolk University, Boston, 2014-15.

Dr. Anjana Sharma was appointed as a Officer on Special Duty and later Founding Dean (Academic Planning) at the Nalanda University (2011- 2015)

### Publications

Aneja, Anil Kumar. (2015). *Human Rights and Voluntarism*. New Delhi: Doaba.

Chatterjee, Subarno. (2015). Suman Gupta, Richard Allen, and Supriya Chaudhuri, *Reconsidering English Studies in Indian Higher Education*. London: Routledge.

Kumar, Raj. (2015). *Dalit Personal Narratives: Reading Caste, Nation and Identity*. Delhi: Orient Black Swan.

Panja, Shormishta. (2015) 'Vexing Questions of Postcolonial Hybridity, Location, Authenticity and Realism. Aravind Adiga's The White Tiger', *Impure Languages: Linguistic and Literary Hybridity in Contemporary Cultures* eds. Rama Kant Agnihotri, Claudia Benthien and Tatiana Oranskaia. Delhi: Orient Black Swan

Panja, Shormishta. (2016). Intercultural Theatre and Shakespeare Productions in Asia: India. *Routledge Handbook of Asian Theatre* ed. Siyuan Liu. London and New York: Routledge

Satpathy, Sumanyu. (2015) As Though She Were a Man: Chitrangada and Contemporary Queer Appropriations of Tagore. D. Banerji (ed) *Rabindranath Tagore in the 21st Century Sophia Studies in Cross-Culture Philosophy of Traditions and Cultures* Ed.). Dibakar Banerji. New Delhi: Springer India.

Satpathy, Sumanyu. Haris Qadeer. (2015). Urdu Translation of Alice in Wonderland, *Alice in World of Wonders*, New Castle: Oak Knoll Press, Delaware in cooperation with the Lewis Carroll Society of North America.

Devadawson, Christel Rashmi. (2015). Personal convictions, public performance: Representing Anna Hazare, *The Public Sphere from Outside the West*, (ed.) Divya Dwivedi & Sanil V, London: Bloomsbury. 176-192.



Kumar, Raj. (2016) The Making of History. *Readings on Dalit Identity: History, Literature and Religion*, edited by Swaraj Basu, New Delhi: Orient Black Swan. 242-60.

Kumar, Raj. (2016). Caste and the Literary Imagination in the Context of Odia Literature: A Reading of Akhila Nayak's Bheda. *Dalit Literatures in India*, edited by Joshil K. Abraham and Judith Misrahi-Barak, New Delhi: Routledge. 143-60.

Kumar, Raj. (2016). Alienation, Consciousness and Assertion: An Interpretation of Oriya Dalit Narrative. *Counter Cultural Discourse and Dalit Literature in India*. (Ed.). M. Dasan and Rajesh Karankal, New Delhi: ABD Publishers. 104-20.

Aneja, Anil. (2015). "Conjugal Cacophony, Unrequited Love and Identity Crisis: A Diasporic Study of Anita Desai's Select Novels", in *Critical Essays on Indian Diaspora*.

Aneja, Anil. (2015). "Rooted Nowhere: Explorations of Identity in Kamala Markandaya's " The Nowhere Man" in *Critical Essays on Indian Diaspora*.

Aneja, Anil. (2015). "Forging Narrative of Identity in Bama" s Karukku", in *Indian Dalit Autobiographies: Marginalised Voices*.

Aneja, Anil Kumar. (2015). "Introduction." in *Ilanko Atikal, Cilappatikaram*. New Delhi: Doaba Publishing Company. 1-28.

Chatterjee, Subarno (2015). 'The Crisis of English Studies and the Public Sphere in India.' In *The Public Sphere from Outside the West*, edited, Sanil V. and Divya Dwivedi (London: Bloomsbury. 95-110.

Kumar, Priya. "The Environmentalism of The Hungry Tide," *Environmentalism of the Global South*, edited by Scott Slovic, R. Swarnalatha R, and Vidya Sarveswaran (Lexington Books, Rowman and Littlefield, 2015).

Chakarvarty, Prasanta (2015). "The Return of Daya" in *Sentiment, Politics, Censorship, The State of Hurt*. ed. Rina Ramdev, Debaditya Bhattacharya, Sandhya Devesan Nambiar. Sage India.

Qadeer, Haris and Sumanyu Satpathy.(2015). Urdu Translation of Alice in Wonderland. *Alice in World of Wonders*. Oak Knoll Press, New Castle, Delaware in cooperation with the Lewis Carroll Society of North America.

Qadeer, Haris. (2015) 'Soil', translation of Tarranum Riyaz's Urdu Short Story Mitti, *Pigeons on the Domes*, Niyogi Books, India

Aneja, Anil Kumar. "Quest for Identity in A Portrait of the Artist as a Young Man." *International Journal of English Language, Literature and Humanities*. 2015

Aneja, Anil Kumar. "Alienation to acculturation in Jhumpa Lahiri's The Namesake." *International Journal of English Language, Literature and Humanities*. 2015.

Aneja, Anil Kumar. "The Distinction of Lady Chatterley's Lover." *International Journal of English language and Literature*, 2015.

Aneja, Anil Kumar. "Setting as Motif in A Portrait of the Artist as a Young Man". *Education Plus: An International Journal of Education and Humanities*, 2015.

Aneja, Anil Kumar. "Corporates and Communities: Possibilities and Challenges." *International Journal of Education, Administration and Management*, 2015.

Chattarji, Subarno. Poetry by American Women Veterans. *Alea: Estudos Neolatinos*, 16(2), (2014). 300-16.

Sharma, Anjana. "Nalanda: A University of the twenty first century." *Senshu University Institute of Humanities Bulletin*, May (2015). 11-16.

Majumdar, Rupen Guha. "Laying Ella's Ghost: the Sublimation of Incestuous Love in Eugene O'Neill's Desire Under the Elms and A Moon for the Misbegotten." *Eugene O'Neill Review*, Vol.37, No.1 (2016). 41-56.

Raja, Ira (2015). The cultural politics of shit: class, gender and public space in India', *Postcolonial Studies* 18.2: 145-160.

Antony, Swetha. "Identity as a Skein of Memory, History and Violence in Micheal Ondaatje's Anil's Ghost", *Literary Quest: An International, Peer-Reviewed, Open Access, Monthly, Online Journal of English Language and Literature*, 1. 11 (2015): 84-92.

### **Research Projects**

Dr. Anjana Sharma, Two Volume book project with Penguin Random House India on the year 1947 in the English print media and a day by day examination of MK Gandhi in English language newspapers in the critical year 1947-48. They are co-authored work with Gopa Sabharwal: Gandhi: From Noakhali to New Delhi, 1947-48.

Dr. Vinod Kumar Singh, Research and Development Council, University of Delhi, Delhi, 2015, Title of the project: An Exploration of the Salient Features of Contemporary Tribal Writings

Dr. Vinod Kumar Singh, Centre for Academic Translations and Archiving, Department of English, University of Delhi, Delhi, 2015, Title of the project: "Procurement of Rare and Important Documents of Hindi Literature".

### **Conference Organized**

Indian Vernacular: Languages, Literatures and Histories (September 7-9, 2015).

### **Conference Presentations**

Panja, Shormishtha. "History Painting, the Passions, Boydell and Bengal" Huntington Library, USA, November 2015.

Panja, Shormishtha. "The Renaissance: An Introduction" [www.vle.du.ac.in](http://www.vle.du.ac.in)

Panja, Shormishtha. "The Boydell Project and Bengal" Univ. of Glasgow, Litup Project, May 2015.

Panja, Shormishtha. Synthesis Talk "Ghosts and Poltergeists (Shakespeare, Marx, Derrida)" July 11, 2015.

Devadawson, Christel R. Common People, Uncommon Minds: A Discussion on the State of Cartoons in India, IHC Samanvay, New Delhi, December 2015.

Devadawson, Christel R. 'The village, the jungle, and Kipling's political animals', University of Glasgow December 2015.

Devadawson, Christel R. 'Pictorial satire: Public space and private people,' English and Foreign Languages University, October 2015.

Devadawson, Christel R. 'Visual politics after "the visual turn," University of Glasgow, May 2015.

Devadawson, Christel R. Moderated panel discussion, 'A tribute to R K Laxman,' at Delhi Literature Festival, April 2015.

Devadawson, Christel R. 'And then came Gandhi,' audio-visual lecture for the University of Glasgow, recorded ILLL, University of Delhi, November 2014.

Kumar, Raj. 'Travelling through Caste', Pilgrimages in India: Celebrating Journeys of Plurality and Sacredness, 04 March 2016 Indiana University, Gurgaon.

Kumar, Raj. 'Development Discourse in Kalahandi', Politics of Development, 13 February 2016 B. R. Ambedkar Central University, Lucknow.

Kumar, Raj. 'G. KalyanRao's Untouchable Spring: A Dalit Epic', a special lecture, 16 January 2016 B. R. Ambedkar College, Delhi University, Delhi.

Kumar, Raj. 'The Progressive and Dalit Subjectivity', Progressive Works in Indian English Literature: Diaspora and Beyond, 05 December 2015 Central University, Mahendergarh, Haryana.

Kumar, Raj. 'Baba Saheb B. R. Ambedkar: His Life and Philosophy', a special lecture, 26 November 2015 Centre for Dalit Studies, Department of English, Delhi University, Delhi. [by invitation]

Kumar, Raj. 'The Future of Dalit Literature', The Future of Literary Writing, 25 November 2015 Department of English Literature, the English and Foreign Language University, Hyderabad.

Kumar, Raj. 'Subaltern Voices in Contemporary Indian Fiction', a special lecture, 17 September 2015 Odisha Sahitya Akademi, India International Centre, Delhi.

Kumar, Raj. 'The Impossible Subject: Dalits in Indian Vernacular', the Indian Vernacular: Languages, Literatures and Histories, 08 September 2015 Department of English, Delhi University, Delhi.

Kumar, Raj. 'Dalit Life-writing: Across Languages and Cultures', a special lecture, 19 August 2015 Centre for Dalit Studies, Department of English, Delhi University, Delhi.

Kumar, Raj. 'Reading of Dalit Atrocities through Odia Literature', a special lecture, 12 August 2015 Centre for Dalit Studies, Department of English, Delhi University, Delhi.

Kumar, Raj. 'Introducing Dalit Literature' a special lecture, 10 August 2015 Department of English, Banasthali Vidyapeeth, Rajasthan.

Aneja, Anil. "Development Issues in Eastern India" in Human Rights and Advocacy, Patna, 2015

Aneja, Anil. "Apathy to Success" in Human Rights and Advocacy, April 2015

Aneja, Anil. "Action and Narration: Rendering Activism in Fiction" in Human Rights and Advocacy, Patna, April 2015

Bhattacharya, Rimli. 'The pulse of violence: A long view of nature, technology and subjectivities', Childhoods in India: Traditions, Trends and Transformations 3-day Symposium, 19-21 November 2015, AzimPremji University, Bangalore. [By Invitation]

Bhattacharya, Rimli. 'Man, machine and trajectories of violence: WWI in image and texts for young people', India and WWI: Across Generations Conference, 6-7 November 2015, Shiv Nadar University & United Service Institution of India, Delhi. [By Invitation]

Bhattacharya, Rimli. 'Subject: Lotuses and Fires: "Scenic Illusions" on the nineteenth century imperial stage', Faculty Seminar, 8 April 2015, Centre for Studies in Social Sciences Calcutta.

Chatterjee, Subarno. 'English Studies in the US and India.' 17 November, 2015. Public lecture at Universidade Estadual de Campinas, Brazil.

Chatterjee, Subarno. 'Representations of war in the Twentieth and Twenty-first Centuries.' 16 November, 2015. Keynote lecture at Faculdade de Letras, Universidade Federal do Rio de Janeiro, Brazil.

Chatterjee, Subarno. 'The Crisis of English Studies in India.' 11 November, 2015. Public lecture at Universidade de São Paulo, Brazil.

Basu, Tapan. Two talks on Dalit Literary Studies delivered at the Refresher Course on "Language, Literature and Culture" organized by the Department and the CPDHE, University of Delhi, March, 2016

Basu, Tapan. "Publishing and Marketing of Dalit Literature" at Young Reserachers' Conference on Dalit Literature as a Critique of the Indian Caste System organized by the Department of English, Presidency University, Kolkata, March, 2016

Basu, Tapan. Keynote speaker "Dalit (Literary) Studies: The Emergence of an Academic Discipline" at Young Reserachers' Conference on Dalit Literature as a Critique of the Indian Caste System organized by the Department of English, Presidency University, Kolkata, March, 2016

Basu, Tapan. "Dalit Narratives : Realist or Counter-Realist?" at a seminar on Realism and Modernist / Post-Modernist Counter - Narratives in Literature, organised by the Department of English, Shyam Lal College, Delhi, April, 2015

Basu, Tapan. "Identity and Difference : The Analogous Masculinist Discourses of the Black Panthers of the U.S.A. and the Dalit Panthers of India" presented at an International Conference on Interrogating Masculinities, organized by St. Stephen's College, Delhi, April, 2015.

Kumar, Priya. "Ambiguous Citizenship: Clandestine Migrants from Partition's Eastern Border, 29 January 2016, Daulat Ram College, University of Delhi.

Chandra, Nandini. "Redundant Men and Machine-like Women in the Shadows of Nehruvian Planned Development", at the Women's Studies Colloquium, University of Hawaii at Manoa. Nov 2015

Bhattacharya, Badik. 'Homo Criminalis: Criminal Anthropology and Imperial Culture,' Bodies of Conquest Conference, 12 March 2016, Lady Sriram College, University of Delhi.

Bhattacharya, Badik 'European Realism,' 10 March 2016, Ramlal Anand College, University of Delhi.

Bhattacharya, Badik 'Kipling and His Archetypes,' 4 March 2016, National Conference on "Narratives of Stereotypes in Text and Performance," Aryabhata College, University of Delhi.

Bhattacharya, Badik. "Measurements of resemblance': Crime, Empire, and Circulation of Photographic Portraiture for Judicial Identification' in a seminar on "Beyond Likeness: Portraiture, its many manifestations, and possibilities," Jawaharlal Nehru University, Delhi. 2015

Dubey, Yogesh Kumar. "A Feminist Framing of Shakespeare," National Conference on "Rethinking and Reframing Shakespeare and the Renaissance" organized under the aegis of Department of English, Hemchandracharya North Gujarat University, Patan. 26-27 March 2016

Qadeer, Haris. "Revisiting Canterbury Tales: Adaptations and Appropriations" in National Conference on Revisiting Literary Classics in Postmodern Secular World organised by Department of English, University of Kashmir, 15-17 October, 2015

Qadeer, Haris. "Rebels on the Road: Contemporary Travel Writings by Indian Muslim Women" in International Seminar on Mapping Research on Muslim Women: Retrospect and Prospects organised by Sarojini Naidu Centre for Women's Studies, Jamia Milia Islamia, 22-23 September, 2015

Qadeer, Haris. "Taleem, Tezheeb and Tarbiyat: Reading Children's Literature in Urdu" in National Conference on Indian Vernaculars: Languages, Literatures and Histories organised by Department of English, University of Delhi, 7-9 September, 2015

Antony, Swetha. 'Tracing Transnationalism: Trajectories, Transactions, and Transmutations', Transnationalism: Texts, Discourses and Socio-cultural Transactions, 4 December 2015, Department of English, Government Arts & Science College, Kozinjampara, Palakkad, Kerala.

Antony, Swetha. "The anxiety of Exile: Journey as a myth and motif in David Malouf's An Imaginary Life", Postcolonial Studies Association 2015 Convention on Diasporas, 7 - 9 September 2015, University of Leicester, Leicester, UK

Antony, Swetha. Salt n' Pepper @ Ustad Hotel: Taste Buds of Kerala and the Culinary Fetishes of the Burgeoning Malayalam Film Industry", conference on Constructing and Defining Food Practices The Food Project: 4th Global Meeting, 15 - 17 September 2015, Mansfield College, Oxford, UK

Singh, Vinod Kumar. Weighing Shakespeare's Universalism," National Conference on "Rethinking and Reframing Shakespeare and the Renaissance" organized under the aegis of Department of English, Hemchandracharya North Gujarat University, Patan. 26-27 March 2016

Singh, Vinod Kumar. "A Survey of the Counterfoils of Indian Economic Reforms," National Seminar on "Adivasi Bhasa, Sahityaaur Samaj" organized under the aegis of Centre for Indian Languages, Jawaharlal Nehru University, New Delhi and ICSSR New Delhi. 06-07 February 2016

Gurawa, Anju. Role of autobiographical writings: A comparative study of Maria Campbell's Halfbreed and writings of Adivasi in India", JNU, Centre for Indian languages, 6-7 Feb, 2016

Gurawa, Anju. Presented paper on 'Challenges and opportunities for School Girls in Delhi and Rajasthan' in National Seminar on Women's Rights: Challenges and Solutions organized by SESOMU Girls College, Sri Dungargarh from January 13 to 14, 2016

Gurawa, Anju. '18th century Women in India : Life and contribution', JNU, New Delhi, 10 Jan 2016

Gurawa, Anju.'Savitribai Phule: Renaissance's and Reformation in India', Delhi University Academic Forum (DUAF), 5 January 2016

### **Inter-Institutional Collaboration**

Collaborative teaching and research project under the LITUP grant (from the British Council) between the Department of Critical Studies (Glasgow University) and the Department of English (University of Delhi) from 2013-the present. From April 2015-January 2016 two faculty members from each department travelled for a period of 1-2 weeks --- Prof. Nigel Leask, Dr. Christine Ferguson from Glasgow, and Prof. Shormishtha Panja, Prof. Christel Devadawson from Delhi. 3 research students from Glasgow, and 5 research students from Delhi participated in a seminar over Skype in December 2015. These five students travelled to Glasgow for a week-long academic interaction in May 2016.

### **Number of M.Phil./Ph.D. awarded**

Ph.D. : 08

M.Phil : 43

**Faculty Strength:** 26

## **GERMANIC AND ROMANCE STUDIES**

### **Major Activities and Achievements**

The Department has conducted the two major Seminars during the period:

"Borders": Metaphorical and Physical, Department of Germanic and Romance Studies, University of Delhi, 3-5 March 2016.

First Interdisciplinary Research Scholars Conference "Exploring Borders and Borderlands in Fact and Fiction", 11 – 15 January 2016.

### **Publications**

Minni Sawhney 2015. Article, "El narco mundo en las novelas transnacionales de Elmer Mendoza y Don Winslow" in *Periferias de la Narcocracia, Ensayos sobre Narrativas Contemporáneas*.ed. Cecilia López Bádano, Buenos Aires: Corregidor ISBN 978-950-05-3075-0.

2015. « The Relevance of Gender in the Narco Corrido/Narco Novel » in Mukherjee, Bhaduri et.al *Transcultural Negotiations of Gender: Studies in (Be) Longing*. New Delhi: Springer ISBN978-81-322-2436-5.

2015. "Octavio Paz, Claude Levi Strauss y la India" in *Papeles de la India*, Vol.44, Número 1, pp.64-76. ISSN0971-1449.

2015. "Octavio Paz en India" in *Octavio Paz Universal* Puebla: El Colegio de Puebla.

Kusum Aggarwal 2015, Ethnographie coloniale comme stratégie d'écriture de soi : Le cas de Doguicimi de Paul Hazoumé , in *International Journal of Francophone Studies*, Vol 18 no : 2-3, 2015.

Ramesh Kumar, 2016, Research article in Hindi, पत्रकारिता का सांप्रदायिक सिध्दान्त, "Suryaprabha", March-16, pp.-7-12, ISSN: 2348-4179.

2015. Translation of Salvatore Quasimodo's poem from Italian into Hindi, *Aerone Morto* ("मृतबगुला"=Mrit Bagula) "Suryaprabha", November-15, p.-25, ISSN: 2348-4179.

2015. Translation of Giacomo Leopardi's poem from Italian into Hindi *A Silvia*, ("सिल्विया"= Silvia), "Suryaprabha", October-15, pp.23-24, ISSN: 2348-4179.

### **Conferences Organized**

"Borders": Metaphorical and Physical, Department of Germanic and Romance Studies, University of Delhi, 3-5 March 2016.

"Paris, Making of a Global Cultural Capital", International Conference on *Symbiosé - Understanding French Literature, Art & Culture* organisée par Symbioses Centre for Liberal Arts (SCLA) in collaboration with the Consulate General of France in Mumbai, Pune, Décembre 14-15, 2015.

### **Inter-Institutional Collaboration**

#### French

1. University of Montpellier-III
2. French-speaking Universities Agency (AUF)

#### German

1. University of Wuppertal, Germany
2. Freie University, Berlin, Germany
3. Potsdam University, Germany
4. Bielefeld University, Germany

#### Spanish

1. University of Santiago de Compostela, Spain
2. University of Navarra, Pamplona, Spain

#### Italian

1. University of Turin, Turin, Italy

### **Number of M.Phil/ Ph.D. Awarded**

Ph.D.: 02 (Spanish); 03 (French); M.Phil.: 02 (French); 01 (Spanish)

Number of faculty Permanent/ Temporary/Adhoc: Permanent: 14; Adhoc: 10; Guest: 07

## **HINDI**

### **Major Activities and Achievements**

Hindi Department of Delhi University is one of the leading department of the country. It creates, innovates sustains and promote high standards of academic excellence. The department has developed a very dynamic curriculum that can reflect and upgrade the needs of changing times, rapid growth in knowledge and requirements.

Department has organized two National-level Seminars under DRS-SAP, a major Research program, funded by U.G.C. for 'Hindi Sahitya Ke Itihas Ka Punarlekhan' is still on.

Department organizes periodically 'Lekhak Se Miliye' dialogue.

### **Honours/Distinctions**

Prof. Sheoraj Singh received 'State Level Award of Appreciation' on Constitution Day by Government of Delhi on 26 November, 2015

Prof. Kusum Lata Malik received 'Presidential Award Category (Role Model)' on 4<sup>th</sup> December, 2015 for academic achievements and social work

Dr. Vinod Tiwari received 'Vanmali Katha-Aalochna Samman, 2016' for contribution in the field of Katha-Aalochna

### **Research Projects**

Dr. Ram Narayan Patel; R & D, University of Delhi, 'Hindi Haiku : Samvedna Aur Shilp' University of Delhi, Delhi-07; Rs. 1 Lakh.

Dr. Manju Mukul Kamble; On Going Major Research Project; Topic : 'Hindi Jansanchar Madhyamon Mein Anuvaad Ki Prakriya Ka Bhashik Vishleshan' funded by U.G.C., Rs. 12.4 Lakh.

### **Publications**

Kumar, Ashutosh (2015); 'Rukmini Aur Ikkiswin Sadi Ka Loktantra, Kal Ke Liye.

Kamble, Manju Mukul (2015); 'Sampreshan Ki Chunautiyaan Aur Hindi Samaj' Shivalik Prakashan, New Delhi.

Kumar, Sanjay (2015); 'Rumani Sansar Se Mukti Ka Aatmasangharsh' Ummeed.

Mishra, Alpana (2015); 'Inn Dino', Naya Gyanodaya.

Malik, Kusum Lata (2015), Naya Rang Bodh, Swaraj Publication, Delhi.



Patel, Ram Narayan (2015); 'Chhayawad Ke Pratham Vyakhyakar : Mukutdhar Pandey', Parishad-Patrika.

Rai, Anil Kumar (2015); 'China Mein Ek Samarpit Hindi Sevi', Sablog.

Singh, Sheoraj (2015); One Chapter (An Alphabet of Indelible Memories) in the Book of Oxford University, 'Listen to the Flames'

Singh, Sudha (2015); 'Buniyadi Hindi Swaniki Aur Vyakaran', Anamika Publication, Delhi

Tiwari, Vinod (2015); 'Kathalochan: Drishya-Paridrishya' Vasudha (National Journal, ISSN: 2231-0460)

#### **Number of M.Phil/P.h.D. Awarded**

Ph.D. :34

M.Phil. : 25

#### **Faculty Strength**

Permanent : 22

#### **Other Significant Information**

The Department is organizing Dr. Nagendra Centenary Programme, which has already been inaugurated by Prof. Dinesh Singh, Former Vice Chancellor, University of Delhi, Delhi in April, 2015.

## **LIBRARY & INFORMATION SCIENCE**

#### **Major Activities and Achievements**

The Department organized Educational Tour Programme in two parts one is Local Educational Tour and second is outside Delhi Educational Tour Programme to facilitate students to know the LIS activities conducted at different-different libraries Students visited various Libraries and information Centers and prepare the Tour Report.

#### **Research Projects**

Ongoing project on "Use of Social Media in Marketing of Library and Information Services and Products in Indian Institutes of Technology (IITs) and Indian Institutes of Management (IIMs): A Study.", University of Delhi.

#### **Publications**

Noushad, Ahmed and Madhusudhan, M. Website of Indian Institutes of Management Library. New Delhi: Sangharsh, 2015, pp.130. (ISBN: 978938298423).

Gareema Sanaman and Kumar, Shailendra, (2015). Users Perspective Towards Assistive Technologies Available in NCR Libraries of India. DESIDOC Journal of Library and Information Technology. 35(2),90-99, 2015.

Bhardwaj, Rajkumar and Madhusudhan, M. "Online Legal Information System (OLIS) Leveraging Access to Legal Information Resources in Indian Environment. "DESIDOC Journal of Library & Information Technology 36.1(2016):47-55 (ISSN: 0976-4658, Peer-reviewed).

Nowsheeba, Asraf Asmi and Madhusudhan, M. "Academic Social Networking Sites: What they have to offer?." *Journal of Knowledge & Communication Management* 5.1(2015): 1-11 (ISSN: 2277-7946, Peer-reviewed).

Singh, K.P., Moveen Kumat, & Khanchandani, Vanita. (2015). Citation analysis of Ph.D. theses submitted to the university of Delhi in social sciences during 1995-2008. *International Journal of Knowledge Content Development & Technology (IJKCDT)*,. 3 (2) 2015; 25-43. ISSN: 2287-187X.

Manish Kumar & K. P. Singh. (2015) Marketing of Library and Information Science Products and Services through Social Media: Need of the Hour. *Library Herald*.53(4)2015:432-440.ISSN.0024-2292.

Singh, K. P. & Khanchandani, Vanita. (2015) Indian Contribution to Open Access Scholarly Publishing in Science and Technology: A Critical Study of Directory of Open Access Journals (DOAJ). *Library Herald*.53 (3) 2015; 268-283.ISSN.0024-2292.

Meera and Manlunching. (2015) ). Bioinformatics Resources and Services at Bioinformatics Centre in India.*Indian Journal of Knowledge Management*. 2(1): 1-17

*Bharti Yadav and Meera. (2015). A Bibliometric Study of SRELS Journal of Information Management Through Indian Citation Index (ICI) During 2004-2012. International Journal of Information Library & Society. 4(2): 11-19.*

Meera & Syed Anas Ali. (2015). Journal of The American Society For Information Science and Technology (JASIST): A Citation Analysis.*ISST Journal of Advances in Librarianship. 6(1): 7-20 (ISBN No.: 09769021)*

*Meera & Lingsangmi Khongreiwo. (2016). Information Seeking Behaviour of Post Graduate Students and Research Scholar of the School of Social Sciences of Jawahar Lal Nehru University (JNU), New Delhi. In Gupta, Saneeta Ed. National Seminar of Future of Libraries: Trends, Issues and Challenges, held on 15-16 March, 2016 at Deptt Library and Information Science, University of Jammu, Jammu. 361-372. (ISBN: 978-93-84556-02-0)*

Mr. Manish Kumar: Joint paper entitled Marketing of Library and Information Science Products and Services Through Social Media: Need of the Hour published in *Library Herald*, publication of Delhi Library Association, Vol. 53, no. 4, December 2015.

Gareema Sanaman and Kumar, Shailendra, (2015). Web Challenges faced by the Blind and Vision Impaired Users in Libraries of Delhi: An Indian Scenario. *The Electronic Library*.33(2), 242-257, 2015.

Madhusudhan, M. and Vikas Singh "Integrated Librar Management Systems: Comparative Analysis of Koha, Libsys, NewGenLib, and Virtua" *The Delectronic Library (Emerald)* 34.2 (2016:223-249.

Bhardwaj, Rajkumar and Madhusudhan, M. "Comparative Analysis of Online Legal Information Sources in Indian Environment "New Library World (Emerald) 117.3/4(2016):251-278.

Madhusudhan, M. "Use of Mobile Devices for Improving the Research Work by Research Scholars of the University of Delhi and University of Hyderabad: A Study" *World Digital Libraries*, 8.2(2015):127-144.

Bhardwaj, Rajkumar and Madhusudhan, M. "Development of Online Legal Information System for Indian Environment: A Survey of Librarians Perspective" *World Digital Libraries* 8.2(2015):99-112.

Madhusudhan, M. "Use of 3G Services by Research Scholars in Central Universities in India: A Study" *World Digital Libraries (An Instrumental peer-reviewed Journal)* 8.1 (2015):33-48.

Singh, K.P., Malkeet Singh. (2015). Role and users approach to social networking sites (SNSs): A Study of Universities of North India. *Electronic Library*.33 (1) 2015;19-34.

Meera and Manlunching.(2015) Use of Bioinformatics Resources and Tools by Users of Bioinformatics Centers in India. *Library Philosophy and Practice (e-journal)*.Paper 1254.<http://digitalcommons.unl.edu/libphilprac/1254>

#### **Number of M. Phil/ Ph. D. Awarded**

Ph.D. : 10  
M. Phil. : 01

**Faculty Strength:** 07

#### **Other Significant Information**

Capacity building, Training and Curriculum needs of Public Library Professionals for the Future. Invited Speaker at India Public Libraries Conference: Transforming Public Libraries in India Envisioning the Future, 2015. 18-03-2015.

Dr. M. Madhusudhan member of ICSSR-National Social Science Documentation Centre (NASSDOC) Committee on Documentation Services and Research Information, New Delhi (2016-17).

Member, **DRTC Assessment Board, DRDO** in Library Science/Documentation, Delhi (29 June 2015).

**Associate Editor**, 92<sup>nd</sup> Annual Report, University of Delhi (2015).

Member, Monitoring and Editing Committee of Library and Information Science Course (Textbook XII Class), Central Board of Secondary Education (CBSE), Delhi 2015.

Dr. K.P. Singh: Member Editorial Advisory Board of International Journal of Knowledge Content Development & Technology (IJKCDT), Korea.

(2015). Proceeding Papers on International Conference Grey to Green –Creating Sustainable Environment Through Green Management Librarianship, ICT, Entrepreneurship & Corporate Social Responsibility (SRFLIS): New Delhi. P.577. ISBN-978-81-927409-3-5.

Dr. Meera: Tecnia SRFLIS Summit 2015: Grey to Green held at Tecnia Institute of Advanced Studies, 11-12 April, 2015.

*Paper/Poster Presenter*

*Pattern of Author Collaboration in the field of Library and Information science: a study of JLIS. 4<sup>th</sup> National Conference on Scientometrics & Internet of Things (SIOT) Organized by Institute of Scientometrics and NCSI-Net, Bangalore, 25-26 September, 2015.*

## **LINGUISTICS**

#### **Major Activities and Achievements**

Department offers M.A./M.Phil. and Ph.D. program in Linguistics. Total number of students in M.A. program is 80, in M.Phil. program is 22 and in Ph.D. program is 22. Apart from regular teaching and research supervision of post-graduate students in Linguistics, there were the successful completion of 13 Ph.D. and M.Phil. dissertations during

the period. The staff members were also engaged in 6 major international collaborations, including international collaborative research work with MOUs between the University of Delhi and other universities overseas, apart from contributing to research and publications which have benefitted students working with them by increasing their international exposure and skills. The department has also been continuing the tradition of imparting Hindi language classes to students from Korea twice a year. The department also boasts of two current chief editors of reputed journal in Linguistics, *Asia-Pacific Language Variation* and *Indian Linguistics*.

### **Honours/Distinctions**

Prof. Ramesh Chand Sharma was included as one of the editors of the online *Journal Macrolinguistics*, Nanjing, China.

### **Publications**

Bagchi, T. (2015). Between life-creation and policy formulation. In *Science, Technology and Development in India: Encountering Values*, ed. Rajeswari S. Raina, 88-103. New Delhi: Orient Black Swan.

Bagchi, T. (2015). Issues of complexity in linguistic analysis. In *Sciences and Methods* [Seminar and Public Lecture Series], special editors Bijoy Mukherjee and Rajkumar Raychoudhury, 121-130. Kolkata and Santiniketan: Asiatic Society / Visva-Bharati.

Bagchi, T. (2016). Tagore, musical competence and performance in ‘Globalized’ education: Problems and prospects. In *Tagore: The World As His Nest*, eds. Sangeeta Datta and Subhoranjan Dasgupta, 89-105. Kolkata: Jadavpur University Press.

Satyanath, S. (2015). Language variation and change: The Indian experience. In Dick Smakman and Patrick Heinrich (Eds.), *Globalizing Sociolinguistics: Challenging and expanding theory* (pp.107-122). London; New York: Routledge.

Satyanath, S. & Sharma, R. (in press). The growth of English in Delhi: New perspectives in a multilingual setting. In Singh, Jaspal. Argyro, Kantara and Dorottoya, Cserzo (Eds.), *Downscaling culture: Revisiting intercultural communication*. Newcastle: Cambridge Scholars.

Satyanath, S. (2015). Editorial. *Asia-Pacific Language Variation*, 1(1), 1-6. DOI: 10.1075/aplv.1.1.001ed.

Satyanath, S. (2015). Editorial. *Asia-Pacific Language Variation*, 1(2), 1-3.

Satyanath, S. (in press). Editorial. *Asia-Pacific Language Variation*, 2(1), 1-4.

### **Research Projects**

Dr. Tanmoy Bhattacharya, Indo-Norway Cooperation Programme (INCP), 2014-17 entitled “A Microcomparative Study of ‘Doubling’ in Dialects of Meiteilon and Norwegian as a case of Syntactic Variation”, Rs.65,81,491/-.

Dr. Tanmoy Bhattacharya, UGC Major Research Project entitled, 2015-18 entitled “*Linguistic Variations across six Dialects of Meiteilon*”, Rs.11,99,400/-.

### **Conference Presentations**

#### **Ramesh Chand Sharma**

Presented Paper on “Rethinking Linguistics in the 21st Century” as a Special Valedictory Address in the 43rd All India Conference of Dravidian Linguistics, held at Annamalai University Annamalainagar, Tamilnadu during June 18-20, 2015.

Delivered Inaugural Lecture on “Linguistics beyond the boundary” in the Refresher Course in Linguistics held at School of languages and Linguistics, Jadavpur University on August 31, 2015.

Delivered Special Lecture on “Implications of Psycholinguistics and Neurolinguistics” in the Refresher Course in Linguistics held at School of languages and Linguistics, Jadavpur University on September 1<sup>st</sup>, 2015.

Delivered a special lecture on “Neural Networking and its implications for NLP” at the Centre for Technology Studies, Mahatma Gandhi Antarrashtriya Vishwavidyalaya on September 10, 2015.

Presented Paper on “Role of Language in Prior Learning and its Integration in Re-skilling of Illiterates” in the National Seminar on “Prior Learning and its Integration in Re-skilling of Illiterates” held at the Department of Adult, Continuing Education & Extension, University of Delhi during March 17-18, 2016.

केन्द्रीय हिंदी संस्थान, आगरा के अंतर्राष्ट्रीय हिंदी शिक्षण विभाग की राष्ट्रीय संगोष्ठी 2016 आगरा केंद्र में मार्च 18-19 को आयोजित संगोष्ठी “हिंदी भाषा शिक्षण: विदेशी विद्यार्थियों के सन्दर्भ में” के उद्घाटन सत्रमें विशिष्ट अतिथि के रूप में भाग लिया और व्याख्यान दिया। प्रथम सत्र में “हिंदी भाषा संरचना और भाषा शिक्षण-कोरियाई शिक्षार्थियों के सन्दर्भ में” शोध पत्र पढ़ा।

Presented Paper on “Russian tradition of Indi-centric linguistic research and the emerging dimensions” in the International Conference on “Sanskrit and Indological Studies in Russia” held at Russian State University of Social Sciences, Moscow during October 28-29, 2015.

### **Tista Bagchi**

Two Fora of Marg Humanities in celebration of the release of its book *Shrapnel Minima* entitled “The Question of Method in the Humanities”, jointly organised with the Department of History, DU, Social Sciences Extension Building, April 6, 2015, and with the Jawaharlal Nehru Institute of Advanced Studies, JNU, May 13, 2015.

### **Shobha Satyanath**

Presented Paper on “Hybridity, multilingualism, identity and change in Nagaland” in the International Conference on “Language power and Identity in Asia: Creating and Crossing Language boundaries” held at International Institute of Asian Studies (IIAS), Leiden, Netherlands during March 14-16, 2016.

Presented Paper on “Perspectives on Speech varieties” in the 37<sup>th</sup> International Conference of Linguistics Society of India on “Panel on Issues in the study of regional varieties and variation” held at Jawaharlal Nehru University, New Delhi during October 15-17, 2015.

### **Tanmoy Bhattacharya**

Presented Paper on “Cosmopolitanism: Diffusing power in a multilingual classroom”, in the 37<sup>th</sup> International Conference of Linguistics Society of India on “Language, Identity in Multilingual Milieus” held at Jawaharlal Nehru University, New Delhi on October 15, 2015.

Presented Paper on “Topic: Modality and Phase Boundary Effect of *-rôm/ lôm-* in Meeteilon” in the International Conference on “Syntactic Typology: Language Contact and Convergence” held at North Eastern Hill University, Shillong on November 23, 2015.

Presented Paper on “I seem to be in Pain: Experiencer Subject Constructions as encoding the Experience of the Self in Indian Languages” in the International Conference on “Syntactic Typology: Language Contact and Convergence” held at North Eastern Hill University, Shillong on November 24, 2015.

Presented Paper on “Some qualifications on the Language as Thought hypothesis” in the symposium on “Language, Literature, and Cognition” held at IIT, Guwahati on November 27, 2015.

Presented Paper on “Bangla polar questions as questions about topics” in the International Conference of South Asian Languages and Literature (ICOSAL-12) held at University of Hyderabad, Hyderabad on January 7, 2016.

### **Gail Coelho**

Presented a paper on “Innovations in Betta Kurumba verb stems” in the 37<sup>th</sup> International Conference of the Linguistic Society of India (ICOLSI-37) held at Jawaharlal Nehru University, New Delhi during October 15-17, 2015.

Presented a paper on “Identifying language contact effects in Betta Kurumba” in the International Conference on “Indian Languages in Contact Situations” held at Deccan College, Pune during February 4-6, 2016.

### **Inter-Institutional Collaboration**

Hankuk University of Foreign Studies, South Korea.

Busan University of Foreign Studies, Busan, South Korea.

University of Hamburg, Germany.

International Collaboration with Cardiff University, Wales, UK. (ICSSR-ESRC UKIERI Ph.D. Partnering Initiative) [2013-2016].

Collaboration and cooperation with Kanda University of International Studies, Japan, to develop modules in eight different varieties of English including Indian English [2015-2016].

### **Number of M.Phil./ Ph.D. Awarded**

M.Phil.: 12

Ph.D. : 01

### **Faculty Strength**

Permanent: 06

### **Other Significant Information**

#### **Tista Bagchi**

Served as Member, Technical Advisory Committee, Social Sciences Division of the Indian Statistical Institute, Kolkata, Delhi, and Bangalore, through 2015-16.

New Paperback Edition of Tista Bagchi, *The Sentence in Language and Cognition*, published September 2015 (Lanham, Maryland: Lexington Books).

Seminar lecture delivered on the topic “Of spooks and other referents: Semantic interpretation and the faculty of language” at the Department of English, DU, November 13, 2015.

**Shobha Satyanath**

Chief Editor of the Journal, Asia-Pacific Language Variation (APLV), published twice a year, by John Benjamins.

**Tanmoy Bhattacharya**

Chief Editor Indian Linguistics, published by the Linguistic Society of India

Conducted interactive workshop on “Multidisciplinary approaches to Disability Studies”, Lady Irwin College, University of Delhi

October 14, 2015: “Language as Structured Thought: A Note on the Biolinguistic Perspective of language”; invited talk at English Det., Delhi Univ.

Jan. 8, 2016: “Deriving Polar and Alternative Questions in Bangla” invited talk at Dept. of Linguistics, EFLU, Hyderabad.

Jan. 9, 2016: “Introducing Minimalism”, invited presentation, CALTS, Univ. of Hyderabad.

Feb. 3, 2016: “Linguistic construction of disability”, invited talk at St. Stephen’s College, University of Delhi.

**Gail Coelho**

"The value of Language: Why it matters" at the "Symposium on Aka (Hrusso) script" held at Bhalukpong, Arunachal Pradesh from 13th-14th May 2016 (organised by Aka (Hrusso) Society).

## MODERN INDIAN LANGUAGES AND LITERARY STUDIES

**Major Activities and Achievements**

The department organized a 20 days “Language Training cum Workshop for North-East Languages” under the “*Gyanodaya V: Dharohar: The Glory of the North-East*” Programme of the University.

The organized a National Seminar on “Oral Tradition and Community Identity” during March, 2016.

**Research Projects**

Major Research Project on Fake lore in Tamil Nadu: A Research on the Growth and Current Scenario.

Major Research Project on Thematic Survey of Post Independence Gujarati, Marathi and Hindi Plays.

Major Research Project on Sindhi Folk Culture and Folk Literature in India: A Study.

Major Research project on ‘Writers, Writing and History (An Archive of Literary Dialogue).

**Publications****Dr. G. Rajagopal**

Rajagopal, G. Cultural Poetics and Sangam Poetry, New Delhi: Sun International Publishers, 2016 ISBN 978-81-928130-8-0

Rajagopal, Govindaswamy. Tirukkuṟ aḷ Pulappaḍ uttum Nōkkum Nāṟ ṛ amum, Proceedings of the All India University Tamil Teachers’ Association, Vol. 1, (Pages 209-219), May 2015. ISBN: 978-81-928616-8-5

----- Nōkku ( and Naṭ pu (Love Relationship in Tirukkūṛ aḷ ),The Proceedings of the Tirukkūṛ aḷ Conference (Pages 310-321), Feb. 2016. ISBN: 978-81-909790-5-4

**Dr. K. Premananthan**

*Voothaanirac chemparutthi* (Translation of the Novel 'Purple Hibiscus' of Chimamanda Ngozi Adichie in Tamil) Puducherry: Anangu Feminist Publication, 2016. ISBN978-93-5258-273-0

**Dr. Ratnottama Das**

Das, Ratnottama.(2015) *Nakh narakha sowaleebor*, A Collection of Four Assamese novellas Guwahati: Pee Gee India. ISBN: 978-81-925486-9-2

Das, Ratnottama. (2015) “*tat nadi nasil upnyasot thoka nothoka kisu kotha*” in Prakash, Ed. Mihir Goswami, Guwahati.

\_\_\_\_\_. 2015, “*Norwegian Wood: eta gaan, ekhan kitap*” in *Somay* Ed. Pankaj Thakur, Times of India: Guwahati.

**Dr. Venkata Ramaiah Gampa**

Gampa, Venkata Ramaiah. (Ed.) (2015). “Ravishastry Katha Prapancham” (Seminar Papers of Sahiti Vedika). Delhi: Sahiti Vedika.

Venkata Ramaiah, Gampa. 2015. *Tella Kakulu Katha: Rachayita Antarangam* in Ekkadivee Tella Kakulu. Venkata Ramana, G and Nagaraju (Eds.). Hyderabad: Chandra Kala Publications. ISBN: 978-81-908572-4-6.

\_\_\_\_\_. 2015. *Ravishastry Rukkulu Kathalu- Vishleshana* in RavishastryKatha Prapancham. Venkata Ramaiah Gampa (Ed.). Delhi: Sahiti Vedika. ISBN: 978-93-5212-887-7.

\_\_\_\_\_. 2015. *Rayala Bhuvana Vijaya Sabha-Paryalokanam* in Pracheena Sahitya Samalochana. Tirupathi Bhukya (Ed.). Kuppam: Krutik Charan Publication. ISBN: 978-93-81992-68-5.

\_\_\_\_\_.2015.*Prapancheekarana Nepathamlo Telugu Kannada Navalalu: Tulanatmaka Parisheelana* in Thamraparni.Naresh Kumar Naik (Ed.). Puttaparthi: Mahimanvitasri Publication. ISBN: 978-93-5254-035-8.

\_\_\_\_\_. 2015. *Thiruvalluvar Vemana Rachanallo Samajam* in Thamraparni.Naresh Kumar Naik (Ed.). Puttaparthi: Mahimanvitasri Publication. ISBN: 978-93-5254-035-8.

\_\_\_\_\_. 2015. *Minority vada galam Vatan Kathalu* in Sahiti Surabhi. Venkata Swami (Ed.). Srikakulam: Sikkolu Book Trust. ISBN: 978-81-929374-6-5.

\_\_\_\_\_.2016.*Dharmavaram Ramakrishnamacharyula vari Padukapattabhishekamu - Samajika Sambandhalu* in Telugu Nataka Sahityam – Samajika Prayojanam. Shankara Rao, Vistali (Ed.) Madras: Department of Telugu. ISBN: 978-93-81992-62-3.

**Faculty Strength:** Permanent: 12 ; Ad-hoc: 1



### Other Significant Information

Content Development for E-PG course for Comparative Literature (Sponsoring Organization: University Grants Commission and MHRD, New Delhi, under its Programme *e-Pathshala*, National Education Mission-ICT) Principal Investigator: Prof. P. C. Pattanaik.

## PERSIAN

### Major Activities and Achievements

Department offers Certificate Course, Diploma Course, Advance Diploma Course, M.A., One Year Post M.A. Diploma in Translation & Interpretation, M. Phil and Ph.D. program in Persian. Total number of students in Certificate Course is 285, Diploma Course is 24, Advance Diploma Course is 16, M.A. is 8, One Year Post M.A. Diploma in Translation & Interpretation is 2, M. Phil is 8 and Ph.D is 12. The Department is supported by UGC-DSA SAP-II grant. The faculty members have more than 03 publications in journals of international repute during 2015-16.

Few faculty members are associated with professional societies and grant agencies. One faculty has been on Advisory committee of Special Assistance Programme of UGC of different universities; and expert on several committees of UGC, and ICCR. Apart from regular teaching and research, the Department organizes weekly seminars, yearly workshop and seminars. During 2015-16, the department organized two International conferences/Seminar, one national workshop and one annual lecture series.

### Honours/ Distinctions

Prof. Aleem Ashraf Khan, as expert, Lok Sewa Ayog, Ajmer, Rajasthan.

Prof. Aleem Ashraf Khan as Persian subject expert in CBSE.

Prof. Aleem Ashraf Khan as member of Persian syllabus and reading material in NIOS.

### Research projects

Title	Funding Agency	Year/Period	Amount sanctioned	
DRS SAP-II	UGC	2014-2019	Rs. 44,00,000/-	(Indo Persian Literature)

### Publications

Perisan Research Journal, (2015) Department of Persian, University of Delhi.

Qand-e-farsi (2015) Iran Cultural House, New Delhi.

Danish Nameh, Shibh Ghare, (2015) Academy of Perisan Language, Tehran, Iran.

### Research Projects

Prof. Chander Shekhar, University of Delhi, Research & Development Project, 2015-16 entitled “Citi and Fort description in Medieval Indo-Persian Literature”, Rs. 1.5 Lakh.

Prof. Rajinder Kumar, University of Delhi, Research & Development Project, 2015-16 entitled “Work on Seirularefin and Mysticism”, Rs. 1 Lakh.

Dr. Mehtab Jahan, University of Delhi, Research & Development Project, 2015-16 entitled “Work on Adeeb-ul-Adab-i-Dervish”, Rs. 1 Lakh.

Dr. Ali Akbar Shah, University of Delhi, Research & Development Project, 2015-16 entitled “Annotated Edition of Shola-e-Aah”, Rs. 1 Lakh.

### **Conferences Organized**

International Conference on “The Sultanate Period and the Early Mughal Empire”, supported University of Delhi & NCPUL held during September 3-4, 2015.

International Conference on “Indo-Persian culture at Mughal Court (Akbar Jahangir & Shahjhan)”, supported University of Delhi & NCPUL held during March 3-5, 2016.

Annual Lecture Series on “Hazrat Amir Khusrau”, by Prof. Vishwanath Tripathi supported by NCPUL held on March-28, 2016.

### **Conference Presentations**

Prof. Aleem Ashraf Khan

Attended & presented a paper in three day International Seminar entitled “Indo-Persian Culture at Mughal Court (Akbar, Jahangir & Shahjahan)” organized by: Department of Persian, University of Delhi on 3<sup>rd</sup>– 5<sup>th</sup> March, 2016.

Attended & presented a paper in three day International Seminar entitled “Available during Akbar’s Reign (1556-1605. A.D.)” organized by: Department of Persian, Aligarh Muslim University, Aligarh, U.P. on 3<sup>rd</sup>– 5<sup>th</sup> Feb., 2016.

Presented a paper in three day International Seminar on “Indo-Turkic Relation: Perspective and its Contemporary Relevance” from 1-3 November 2015, organized by Turkish Language & Literature Programme under the title of “Indo-Turkic: Multi-Dimensional basis of Relations”.

Presented a paper in three day All India Seminar on “The Indian History in Arabic Persian Language and their Authors and Translators” from 1-3 March 2016, organized by Mulana Abul Kalam Azad Arabic, Persian Research Institute Tonk, Rajasthan, under the title of “Tarikh-e-Firoz Shahi aur Us ke Mutarjim Moinul Haq”.

Presented a paper in “International Scientific Symposium for the Challenges of Persian Studies in the World” from 6 - 7 March 2016 at Tehran, Iran, under the title of “Problems of Persian Literature in India and their Solution”.

Presented a paper in three day International Seminar on “Indian Wisdom: Panch Tantra / Kalila wa Dimnah; Tradition, History & Culture” from 8 -10 March 2016, organized by Department of Arabic in Collaboration with the Departments of Persian, Sanskrit & Urdu, University of Delhi, on the title of “Panchtantra: Persian Tradition.”.

Presented a paper in three day All India Seminar on “Islamic Mysticism” 13-15 February 2016, organized by Department of Islamic Studies, Jamia Millia Islamia, New Delhi, UNDER the title of “An Introduction to a Hagiological (Tazkirah) Source of Medieval Persian Literature in India”.

Presented a paper in two day national Seminar on “Recognition of Prior Learning and Establishing Linkages with Re-skilling” from 17- 18 March 2016, organized by Department of Adult, Continuing Education & Extension, Faculty of Social Sciences, University of Delhi, UNDER the title of “Shahjahanabad and handicrafts workers: A case Study”.

Presented a paper in three day National Seminar on “History of Gujjars and Bakarwals of Jammu and Kashmir State” from 24 - 26 March 2016, organized by Centre for the Study of Social Exclusion and Inclusive Policy.

Presented a paper in Seminar on “Post 1947 Persian Language & Literature and Prof. Nazir Ahmad” from 7 - 8 May 2016, organized by Aiwan-i- Ghalib, New Delhi.

Prof. Rajinder Kumar

Attended & presented a paper three day International Seminar entitled “Indo-Persian Culture at Mughal Court (Akbar, Jahangir & Shahjahan)” organized by: Department of Persian, University of Delhi on 3<sup>rd</sup>– 5<sup>th</sup> March, 2016.

Presented a research Paper on “Humyun Nameh Gulbadan Begum: Makhaze Siyasi va Farhangi Daurey Humyun” on 26<sup>th</sup>– 28<sup>th</sup> December, 2015 during the 34<sup>th</sup> All India Persian Teachers Conference organized by: University of Patna, Patna, Bihar.

Attended & presented a paper “Inshai Faizi: Manabae Jograf, Adabi va Siyasi” in three day International Seminar entitled “Available during Akbar’s Reign (1556-1605. A.D.)” organized by: Department of Persian, Aligarh Muslim University, Aligarh, U.P. on 3<sup>rd</sup>– 5<sup>th</sup> Feb., 2016.

Dr. Mehtab Jahan

Attended & presented a paper three day International Seminar entitled “Indo-Persian Culture at Mughal Court (Akbar, Jahangir & Shahjahan)” organized by: Department of Persian, University of Delhi on 3<sup>rd</sup>– 5<sup>th</sup> March, 2016.

Presented a research Paper on “Panchtra: Ek Jaiza” on 8<sup>th</sup>– 10<sup>th</sup> March, 2016 during the three day International Seminar entitled “Indian Wisdom: Panchtantra/Kalila wa Dimneh Tradetion, History & Culture ” organized by: Department of Arabic, University of Delhi.

Presented a research Paper on “Uneeswiro Sadi ka Hundustan aur Farasatnamah” on 26<sup>th</sup>– 28<sup>th</sup> December, 2015 during the 34<sup>th</sup> All India Persian Teachers Conference organized by: University of Patna, Patna, Bihar.

Attended & presented a paper “Aihad-e-Akbar ke Indoor Games” in three day International Seminar entitled “Available during Akbar’s Reign (1556-1605. A.D.)” organized by: Department of Persian, Aligarh Muslim University, Aligarh, U.P. on 3<sup>rd</sup>– 5<sup>th</sup> Feb., 2016.

### **Inter-Institutional Collaboration**

*Prof. Chander Shekhar, University of Bonn, Germany*

### **Number of M. Phil./Ph. D. Awarded**

Ph. D.: 04

M.Phil.: 04

### **Faculty Strength**

Permanent Faculty: 05

Ad-hoc faculty: 01

Guest faculty: 03

Research Associate: 01 + 01 (vacant)

## PHILOSOPHY

### Major Activities and Achievements

Department of Philosophy, University of Delhi, offers both teaching and research at various levels, such as M.A., M.Phil., and Ph.D. At M.A. level, it has the combined sanctioned seats of 277 (both North and South Campuses). M.A. courses (compulsory and optional) are divided into 4 semesters over two years and taught by regular faculties and a few invited faculties from Delhi University Colleges. At M.Phil. and Ph.D. levels, it has both lecture based course work and research work through writing a dissertation. In M.Phil. programme, it offers 25 seats, whereas in Ph.D., it admits students as per the availability of the seats. In the current session (2016–2017), the Department has admitted 15 M.Phil. and 15 Ph.D. students. In all the three programmes, both Indian and Western philosophical traditions including contemporary discourses are covered. The total faculty strength of the Department is 19, 11 out of which were recruited in early 2015, specializing in various areas of philosophy and actively engaged in both teaching and research.

In the last one year (2015–2016), the Department has organized some national level seminars and conferences, besides its regular Friday seminars for which external speakers, national and international, are also invited to speak. Some of our senior faculty members are associated with various academic societies and institutions like Indian Council of Philosophical Research, University Grants Commission, Central Board of School Examinations, and various Public Service Commissions, apart from international associations. They are also awarded major research projects by Delhi University and University Grants Commission. The Department has exchange programme under MoU with foreign universities like Carleton and Edinburg.

### Honors/Distinctions

Prof. H. S. Prasad:

Member, International Association for the History of Religion;

General Secretary, Indian Association for the Study of Religion;

Member, Indian Council of Philosophical Research, Ministry of HRD, Govt. of India

Member, Indian Philosophical Congress

Chief Editor: *New Age Buddhism Series*, Motilal Banarsidass, Delhi.

Dr. Pragati Sahni : Associate Professor

Appointed as ICCR Visiting Professor of Indian Studies at Carleton University, Ottawa, Canada, for one semester, from 5 Jan, 2016 to 30 April, 2016.

### Publications

Bhowmick, N. (2015). "Early Modern Philosophy of Language," UGC E-Pathshala, Philosophy of Language Module.

Bhowmick, N. (2016, Feb. 24) "Converting Umar Khalid to Islam" [thewire.in](http://thewire.in)

Gupta, A. K. & Chaturvedi, Namrata (2015). 'W.B Yeats' 'Among Schoolchildren': A Buddhist reading', *The Yeats Journal of Korea*, South Korea, Vol. 47, pp. 83-95.

Jaiswal, R.(2015). The Communitarian Critique of Western Liberalism with Special Reference to Sandel and Walzer. *UGC-*

*Epathshala*. (A. Raghuramraju, Ed.) National Mission on Education through ICT. Retrieved from [http://epgp.inflibnet.ac.in/view\\_f.php?category=622](http://epgp.inflibnet.ac.in/view_f.php?category=622)

Kesava Kumar, P. (2016). Song: The Voice of Voiceless, *The Oxford India Anthology of Telugu Dalit Writing* (Ed. K.Purushotham, Gita Ramaswamy and Gogu Shyamala), New Delhi: Oxford University Press, 451- 457

Kesava Kumar, P. (2016).Dappu: A Symbol of Dalit Protest, *Counter- Writing: Dalits and Other Subalterns* (Ed. J.Bheemaiah), New Delhi: Prestige Books International, 117-127

Motilal, S. and Juyal, D.R.(2016)Human Rights and Public Policy Frameworks: A Kantian Perspective *Journal of Indian Council of Philosophical Research*, Vol. 33, 241-251.

Motilal, S. (2015) Human Moral Obligations, Dharma, and Human Rights in Ashwani Peetush and Jay Drydyk (eds.) *Human Rights: India and the West* New Delhi, India, Oxford University Press (India) 123 -145.

Motilal, S. (2015) Can Ethical Theory be Opposed to Moral Practice *Journal of Indian Council of Philosophical Research*, Volume 32, 289 -299

Motilal, S. (2015) Self-governance: The Need for Values and Ethics” *Bhavan Today and After* New Delhi: Bhartiya Vidya Bhavan 251 – 265

Motilal, S. (2015) Sustainable Development Goals and Human Moral Obligations: The Ends and Means Relation *Journal of Global Ethics*.Volume 11, 24-31

Mitra E. (2015 ) ‘A Brief Survey of Indian Logic : Nyaya, Baudha, and Jaina’ in *Introduction To Logic* (Ed). Copi, I.M., Cohen C, and McMohan K, Delhi, Chennai: Pearson India, Education Services Private Ltd. Pg 414-463

Mitra E. (2016 ) ‘Wittgensteiner Sondhane Shocindronath’, in *Anushtup* , Anil Acharya (General editor), ( a Bi annual journal, Kolkata), Golden Jubilee Special Issue, (Ed) Chakravarti Arindam , Kolkata: Anushtup Publications. Pg 213-255

Veeravalli A. 2016, The ID card: Presuppositions of Identity, Personhood, and Identification in *Jindal Journal of Public Policy*, Vol.3.

### **Research Projects**

University Grants Commission, 2015- 2018, A Study of Doctrinal differences of the Early Buddhist Sects of Andhra, New Delhi,13.5 lacs

University of Delhi, Annual Research & Development Grant 2015-16, '*Ethics and values in Public Administration in India*', Amount Sanctioned: 1 Lac.

University of Delhi, Annual Research & Development Grant 2015-16, *Understanding Rawls’ Theory of Justice: The Problem of Gender Inequality*, Amount Sanctioned: 1 Lac.

### **Conferences Organized**

One-day workshop by Prof. Stephen Stich (Board of Governors’ Distinguished Professor, Rutgers University) on “*Experimental Philosophy and the Philosophical Tradition*”, on 23<sup>rd</sup> February, 2016.

Seminar on “1000 Years of Abhinavagupt of Kashmir Shaivism”, University of Delhi, on Nov.7, 2015.

Seminar On ‘Contemporary Indian Thinkers’, University of Delhi, During 13-15 March, 2016.

Seminar on 'Identity, Culture and Recognition,' and 'Forgotten Philosophies', by Prof. William Sweet, St. Francis Xavier University on 15<sup>th</sup> February 2016.

Seminar on *Tibetan Conceptions of Madhyamaka School*, Dr. Paul Donnelly, 29<sup>th</sup> July 2016.

Seminar on *The Problem of Pluralism in Early Indian thought*, by Prof. Gerald Larson, 16<sup>th</sup> March 2016.

Winter School on *Folklore, Tradition and Culture* for 21 days was organized at Centre for Professional Development in Higher Education, University of Delhi, Delhi during 18<sup>th</sup> February to 9<sup>th</sup> March 2016.

## **Conference Presentations**

### **Prof. Balaganapathi Deverakonda**

*Pilgrimage and Rituals: Philosophical reflections* in a One-day International Symposium organized by Department of Philosophy, Kamala Nehru College, New Delhi on 30<sup>th</sup> July 2016.

*Impact of Globalisation on Education* in a two-day 5th International Conference on Ethics on the theme Social Responsibility: The Ethical Dimensions organized by Ramanujan College, Delhi during 12<sup>th</sup> & 13<sup>th</sup> of March 2016.

*Violence and Religious Minorities: Examining the Egalitarian values of Modern Democratic State in the Cross cultural context* in a three-day International Seminar on Idea of Equality organized by Indian Council of Philosophical Research, New Delhi at India International Centre, New Delhi during 28<sup>th</sup> to 30<sup>th</sup> July 2015.

*Non-Substantialism and Liquid life: A study of Nagarjuna and Bauman* in the Global context a three-day Global Seminar on Understanding the Contemporaneity of Acharya Nagarjuna's Philosophy organized by Centre for Mahayana Buddhism, Acharya Nagarjuna University, Guntur during 28<sup>th</sup> -30<sup>th</sup> January 2015.

### **Professor P. Kesava Kumar**

Presented a paper on 'Dalit Consciousness- Literature and Culture: Challenges of Future', National Seminar on 'Dalit Consciousness- Literature and Culture: Challenges of Future' organized by Centre for Dalit and Adivasi studies and Translation, University of Hyderabad, March 19-20, 2016.

Invited lecture on *Critical Philosophical Traditions in India*, Department of Philosophy, Kamala Nehru College, University of Delhi, Delhi on 27<sup>th</sup> January 2016.

Presented a paper on *Ambedkar's Conception of Equality: A Philosophical Understanding*, ICPR International Seminar on Idea of Equality, organized by Department of Philosophy, University of Delhi at IIC, New Delhi, 28-30 July, 2015.

Presented a paper on *Ambedkar's Conception of Democracy: A Philosophical Note*, National seminar on Ambedkar and Indian Democracy, organized by Centre for Ambedkar Studies, University of Hyderabad, Hyderabad, 26-27 March, 2015.

Presented a paper on *Contemporary Buddhism and the Question of Caste: Iyothee Thass and B.R.Ambedkar*, International seminar on Contemporary Buddhism: Debates and Applications, organized by Buddhist Studies Initiative, Department of Philosophy, University Mumbai, 19-21 March, 2015.

Invited Lecture on 'Political Philosophy of B.R. Ambedkar' ICSSR workshop on Research methodology on "Interpreting Key Texts/Readings of Ambedkar for Contemporary India" organized by Dept. of Political Science, University of Delhi, 18<sup>th</sup> February 2016.

**Dr. Shashi Motilal**

Delivered lecture on "Sustainable Development Goals and Human Moral Obligations: The Ends and Means Relation" on Sept 22, 2015 at Department of Philosophy, University of Graz, Graz, Austria

Paper on Juvenile justice presented in the panel discussion on "Juvenile Crime, Punishment and Human Rights Implications" organized by Mata Sundari College, University of Delhi, March 2016

Presented a paper on "Fictional Terms and their Philosophical Implications" in National Conference on Philosophy and Literature organized by department of Philosophy, sponsored by ICPR, April, 2016

Presented a paper on "Amartya Sen on Social Justice" in National Conference on Modern Indian Thinkers organized by Department of Philosophy sponsored by ICPR, March 2016

Dr. Pragagi Sahni, presented a Public lecture entitled "Some Reflections on Body in Early Buddhist Literature" on 8 April, 2016, in Carleton University in Ottawa, Canada.

Dr. Enakshi Ray Mitra, delivered a lecture as a Resource-person on Later Wittgenstein's Philosophy of Mind in a UGC sponsored International Seminar on 'Philosophy of Mind – Indian and the Western Perspectives' organised by the Department of Philosophy and the Life-World, Vidyasagar University, Midnapore, West Bengal on 10<sup>th</sup> of January 2016.

Participated and presented a paper in a one day seminar on 'The Concepts of Nishedha, Anupalabdhi and Abhava in the Indian systems of Philosophy' organised by ICPR and held on 13<sup>th</sup> of January 2016. The title of her paper is 'Revisiting the Nyaya-Vaisheshika and the Mimamsaka Theory of Abhava in terms of the views of Russell and early Wittgenstein'.

Participated and presented a paper titled 'Reading Sukumar Ray's Abak Jolpan: From a Philosophical Perspective of Language' on 12<sup>th</sup> of April, 2016, in a three day ICPR National Seminar on 'Perspectives in Philosophy of Literature' held in Dept of Philosophy, University of Delhi from 11<sup>th</sup> -13<sup>th</sup> of April, 2016.

**Dr. Anuradha Veeravalli**

'God/ No God, *Ram Naam Satya Hai*' paper presented in International Seminar on *God, No-God, and the Argumentative Indian*(21-22 July 2015) organized by Indian Institute of Advanced Study, Shimla-171005.

Bhowmick, N. (15<sup>th</sup> October, 2015) "Making Sense of Reference." Talk at IIT Delhi, Humanities and Social Sciences.

**Dr. Aditya Kumar Gupta**

Presented Paper on 'Key Terms of Indian Culture and National Political Discourse' in Young Thinkers' Meet (India Foundation), held at Patnitop, Jammu and Kashmir, during August 6-7, 2016.

Presented Paper on 'Globalization and Advaitic Religion: Possibilities and Relevance', in National Seminar at Central University of Rajasthan, held at Kishangarh, Rajasthan in July 2016.

Presented Paper on 'Vasudhaiva Kutumbakam: Bhumandalikaran ka Darshanik Aadhar', held at C.P.D.H.E., Delhi University in June 2016.

Presented Paper on 'Ranade and The Bhagvadgītā : An Examination of his theory of Beatificism', in National Seminar on R.D.Ranade, held at University of Allahabad, May 2016.

Presented Paper on ‘Love’ in Kabir : An Advaitin Perspective’, National Seminar on ‘Philosophy and Literature’, held at University of Delhi in April 2016.

Presented Paper on ‘Osho: A Modern Advaitin’, in National Seminar on ‘Contemporary Indian Thinkers’, held at University of Delhi, March 2016.

Presented paper on “Diameter of Line Graph associated to a Maximal Graph of a Ring” in the International Conference on Mathematics 2015 held at Department of Mathematics, University of Kerala, Thiruvananthapuram (Trivandrum), Kerala during November 26-28, 2015.

Presented Paper on ‘Vedantic Theory of Aurobindo and Human Evolution’, in National Seminar on ‘Relevance of Aurobindo’, held at Nehru Memorial, Delhi in Feb 2016.

Presented Paper on ‘Advaitic Vision of Religion: A Model of Religious Harmony’, in Dharma-Dhamma International Conference held at Indore, Oct. 2015.

Dr. Ayesha Gautam, presented a paper entitled “Tribal Folklore and Philosophy in Indian Context” in a ICPR sponsored National Seminar on ‘Perspectives in Philosophy of Literature’ held in Department of Philosophy, University of Delhi (11th April 2016).

#### **Dr. Reetu Jaiswal**

“Rawls’s Original Position: The question of Gender-Neutrality” in ICPR organized International Seminar on *The Idea of Equality* (28-30 July, 2015).

“From Power to Peace: A Study of Tagore’s Humanism” in ICPR organized National Seminar on *Contemporary Indian Thinkers* (13-15 March, 2016).

“The Priority of the Right or the Good: A Study of Prof. Kamalakar Mishra’s Concept of Moksa” in ICPR sponsored National Seminar, organized by Department of Philosophy and Religion, Banaras Hindu University on *Indian Tradition, Śaivāgama and Value: From Tantrika Perspective of Kamalakar Mishra* (12-14 August, 2016).

Sumesh M K, presented a paper "Derivation as the Core of Analogy", at Benemérita Universidad Autónoma de Puebla, Mexico, First World Congress on Analogy, ISBN 978-83-65275-01-1, November 4-6, 2015.

#### **Number of M. Phil./ Ph. D. Awarded**

Ph. D.: 14

M.Phil.: 4

#### **Faculty Strength**

Permanent: 19

## **PSYCHOLOGY**

#### **Major Activities and Achievements**

The Department of Psychology offers M.A. in Psychology, M.A. in Applied Psychology and Ph.D. in Psychology Programs. The Department has two units – Psychology Unit in North Campus and Applied Psychology Unit in South Campus. The Total number of students who took admission in North and the South Campus Units combined in M.A. and Ph. D. Programs is 147 and 17 respectively.



The faculty research is supported by grants from UGC-SAP/CAS, ICSSR, DST-FIST, DRDO, AICTE, LSRB, R & D, DU. The research activities of the department focuses around areas of Community Development, Ageing, Clinical Psychology Counselling Child and Adolescent psychology, Cognitive and Neuro Psychology, Personality and Self growth, Organisation Culture and Development.

The Department also has its own Placement Cell for the internship and final placements of the M.A. Psychology and M.A. Applied Psychology students. The Placement Cell provides a platform for the students to meet and interact with counselling, clinical, corporate organizations, and business houses and make better choices in terms of fields where their skills and knowledge can be best utilized. During 2015-16, approximately 20 % of the students received placement offers from different companies and organizations for work. The Department organized two separate educational trips one to Tilonia Village and another to Kullu Manali for development of Student's academic and experiential enrichment.

### **Honours/ Distinctions**

Prof. N.K. Chadha was Awarded Global Practitioner of the Year for Career Development by National Career Development Association (NCDA) of USA, in 2015.

### **Publications**

Arora, S. S. & Vohra, S. S.(2015) Belief healing: an approach to positive cognitive- behavioural psychology. *Social Sciences International Research Journal*, 1(1).

Bajpai, Alka (Feb, 2016). Exploring the role of Emotional Climate in Perceptions of Politics at the Workplace. *25th Silver Jubilee Convention of the National Academy of Psychology*.

Bhaisora, M., Sejwal, P., & Mahakud, G. C. (2015). Post Traumatic Growth among Caregivers of Autistic. Disabilities and Impairments: An Interdisciplinary Research *Journal*, Volume-29, Pp.96-108.

Chadha, N. K. & Chopra, V. (2015).Positive Work-Family Interface. *Positive Psychology: applications in work, health and well-being*.

Chadha, N. K. & Bhatia, Harpreet. (2015). Career Development: Different Voices Different Choices. *Macmillan Panicle Books The Reader's Paradise*.

Dhillon, Megha & Babu, Nandita (2015).Peer Conflict among Indian Children in School Settings. *Psychological Studies Volume 60, Issue 2,154-159*.

Gangai, K., Mahakud, G. C., & Sharma, V. (2016). Association between Locus of Control and Job Satisfaction in Employees: A Critical Review, *The International Journal of Indian Psychology*. E-ISSN: 2348-5396, P-ISSN: 2349-3429. DIP: 18.01.179/20160302, Volume-3, Pp-55-68.

Gupta, V., & Devalina. (2015). Role of Positive Emotions in Helping Organisations Cope Better: Contributions of Fredrickson's Broaden and Build Theory. *Organisational and Human Behaviour, Volume 4, pg. 52-61*.

Gupta, V., & Mehndiratta, R. (2015). Happiness: Understanding its antecedents and consequences. *The International Journal of Social Development, Volume 2, No. 2*.

Jaggi, M. B. & Vohra, S. S. (2015).Enhancing resilience among employees through emotional regulation. *Mind for Management, Bloomsbury: India. 306-318*.

- Jena, S. P. K. (2016). Generalization and maintenance of training in behaviour modification of the children with special needs RENOVA, Vol. 2, No. 1, 42-47.
- Khanna, S., & Gupta, V. (2016). The impact of Psychological Empowerment on Job Satisfaction and Organizational Commitment. *International Journal of Research in Organizational Behaviour and Human Resource Management*, Vol. 4, No. 1, PP-24-36.
- Kaul, S. & Vohra, S.S (2015). Emerging from loneliness and despair. 4th Annual International Conference on Cognitive and Behavioral Psychology (CBP 2015). Singapore, 9- 10 Feb 2015.
- Mahakud, G. C (2015). A standardized Case History Format for Clinical Psychology and Psychiatry Professional. *International Journal of Psychology and Psychiatry*. Online, Volume-3, Issue-2, 48-55, DOI:10.5958/2320-6233.2015.00015.2
- Mahakud, G. C. & Gangai, K. N. (2015). The Influence of Workplace Spirituality on Organizational Commitment among Public Sector Employees. *Journal of Organisation and Human Behaviour*. Volume 4 (1) Pp-37-46.
- Mahakud, G. C. & Joshi, R. (2016). Self-Concept and Its Relation to Academic Achievement, *International Journal of Education and Psychological Research*, e-ISSN-2279-0179, Volume, 5, Issue-1, Pp-1-6.
- Mahakud, G. C. & Yadav, R. (2015). Effects of Happiness on Mental Health. *The International Journal of Indian Psychology*. E-ISSN: 2348-5396 P-ISSN: 2349-3429. Paper ID: B00385V2I32015, Volume-2, Issue-3, Pp-106-114.
- Mahakud, G. C. (2015). Career Interest among Government and Private School Adolescents. *Indian Journal of Adult Education*, Vol. 76 (2); pp. 87-97.
- Mahakud, G. C. Arora, S., & Kaur, J. (2015). Application of Behavior Therapy for the Management of Problem Behavior among School Going Children. *International Journal of Education and Psychological Research*, Volume, 4, Issue-3, Pp-38-43, IBI Factor: 3.46.
- Mahakud, G.C., Gupta, V., & Chadha, N.K. (2015). Attitude of Adolescent and Young Adult females towards women Empowerment: A comparative study. *Indian Journal of Health and Well Being*, Volume 6, Issue- 1. Pg: 22-26.
- Pain, A. & Vohra, S.S. (2015). Loneliness and despair: understanding its causes and implication of psychotherapeutic interventions in present society. *4th Annual International Conference on Cognitive and Behavioral Psychology (CBP 2015)*. Singapore, 9-10 Feb 2015.
- Saxena & Babu (2015). Everyday Lessons on Sharing. *Journal of Human Values*, 21 (2) 116-126.
- Saxena, V. (2015). Discourse Analysis as a Method. *Indian Journal of Research*, 4(4), 4-5.
- Saxena, V. (2015). Situation Based Moral Evaluation. *Indian Journal of Positive Psychology*, 6(2), 143-145.
- Saxena, V. (2015). Culturally Informed Moral Domain. *Global Journal for Research Analysis*, 4 (4), 1-2.
- Saxena, V. & Babu, N. (2015). 'Respecting Elders as A Moral Virtue: Terminal or Instrumental?' accepted in *Psychological studies*. DOI: 10.1007/s12646-015-0305-y
- Varma, S . (2016). Non-violent ways of relating: Love, healing, and beyond. *Indian Journal of Behavioural Sciences*, 1(1).

Vij, S & Babu, N (2016) Expression of Gratitude in Indian Children: A qualitative enquiry, *British Journal of Arts and Social Sciences*, Vol.21 No.1(2016) 25-33.

Wani, M. & Vohra, S. S. (2015). Search for meaning in life in middle aged homemakers and its impact on life satisfaction. *Human Rights International Research Journal*.3 (1).

### **Research Projects**

Prof. Nandita Babu, R & D Research Project, 2015-16 entitled “ A comparative study of Empathy and emotional responsive non Delinquent and non-delinquent adolescents.”

Dr. Dinesh, R & D Research Project, 2015 -16 entitled “Goole Effect on Memory and the role of Internet self efficacy.

### **Conferences Organized**

“Application of Psychology in Military Setting” by Dr. K. Ramachandran, Director, DIPR, DRDO on 22<sup>nd</sup> July 2015 in the Department of Psychology.

“Reaching Out to Children and Adolescents” by Dr. Vandana Thapar, Joint Director, NIPCCD on 23<sup>rd</sup> July 2015.

“Online Information Retrieval: Tools & Techniques (ii) E-Resources in Psychology” by Dr. Rajesh Singh, Deputy Librarian, Central Library, University of Delhi, Delh-110007 on 24<sup>th</sup> July 2015 in the Department of Psychology.

“Evolution of Psychology: National & International Perspectives” by Prof. Girishwar Misra, Vice Chancellor, Mahatma Gandhi Antarrashtriya Hindi Vishvavidyalaya, Wardha on 10<sup>th</sup> August, 2015 at 11:00 a.m. in the Department of Psychology.

“Emerging Trends in Cognitive Science” by Dr. Sushil Chandra, Scientist, INMAS, DRDO, New Delhi on 1<sup>st</sup> September, 2015 at 2:00 p.m. in the Department of Psychology.

“Making Song, Making Sanity-Recovery from Bipolar Disorder” by Ms. Prateeksha Sharma, Classical Musician, Survival Researcher, Interdisciplinary Social Science Research in Mental Health on 4<sup>th</sup> September, 2015.

“Global Social Work Trends” by Ms. E. Wright, YMCA, Nizamuddin Delhi on 28<sup>th</sup> September, 2015.

“Emerging Trends in Neuropsychology: AIIMS Experiences” By Dr. Ashima Nehra, Department of Neuropsychology, Faculty, AIIMS on 23<sup>rd</sup> July, 2015 at 11:00 a.m. in the Department of Psychology.

Walking with Kabir: An experiential Journey by Shabnam Virmanion 9<sup>th</sup> February, 2016.

Workshop on Art therapy by Dr. Susan Anandand & Dr. Jane Kristel (University of Mississippi) on 13<sup>th</sup> February, 2016.

Art Therapy by Dr. Susan Anandand Dr. Jane Kristel( University of Mississippi) on 13<sup>th</sup> and 14<sup>th</sup> February, 2016.

Sri Aurobindo & the future Psychology by Dr. Sunnet Verma, Dr. Moica Gupta & Prof. Bharat Gupta on 17<sup>th</sup> February, 2016.

Creative Art and Movement Therapy by Dr. Aditi Kaul of Fortis Hospital on 9<sup>th</sup> March, 2016.

Islamic Perspective on Psychology by Prof. Naved Iqbal on 17<sup>th</sup> March, 2016.

Psychoanalytic Psychotherapy by Mr. Sudhir Mishra on 18<sup>th</sup> March, 2016.

Prof. Anima Sen Memorial Lecture by Prof. R.C. Tripathi on 18<sup>th</sup> March, 2016.

Workshop on Yoga and Psychotherapy by Prof. Anthony Parker on 29<sup>th</sup> March, 2016.

Exploring the possibility of witnessing Consciousness through the process of Natyashasta, on 2<sup>nd</sup> and 3<sup>rd</sup> April, 2016.

Challenges of Researcher's Self by Prof. Honey Oberoi, Ambedkar University on 4<sup>th</sup> March, 2016.

### **Conference Presentations**

#### **Prof. Anand Prakash**

Delivered a talk on "Health and well-being: Sharing from Cultural narratives" in a seminar organized by Department of Psychology, Jamia Millia Islamia, New Delhi March 2-3, 2016.

Conducted a workshop on Qualitative Research Methods organized by Department of Psychology, Lucknow University, Lucknow (U.P.) – April 15-18, 2016

Conducted a workshop on Qualitative Research Methods organized by Department of Psychology, Guwahati University, Assam, May 30-31, 2016

Dr. Jena, S. P. K. (2016) on Inhibitory Control and Error-Processing in Addictive Behaviour: A Neurocognitive Perspective: 1st National Conference of Cognitive Neuroscience, 4-5 April 2016 at Institute of Behavioural Science, University of Forensic Sciences, Gandhinagar, Gujarat.

Dr. Jena, S. P. K. (2016) on Use of Biofeedback in Headache. In Application of Biofeedback in Various Disorders, 3-5 March, 2016, National Workshop on Biofeedback, Gautam Buddha University, Gautam Buddha Nagar, Greater Noida.

#### **Dr. Alka Bajpai**

Presented a paper titled 'Exploring the role of Emotional Climate in Perceptions of Politics at the Workplace' in the 25th Silver Jubilee Convention of the National Academy of Psychology from February 2-5, 2016 organized by Department of Psychology and CBCS, University of Allahabad.

Presented a paper titled "Emotional Climate and Workplace Spirituality" presented in International conference on 'Spiritual Paradigm for Surmounting Global Management Crises' from 24-26 February, 2012 at SMS, Varanasi.

### **Number of M. Phil./ Ph. D. Awarded**

Ph. D.: 23

### **Faculty Strength**

Permanent – 13 (10 +03)

Temporary – None

Ad-hoc – 03 (01 + 02)

### **Other Significant Information**

The Department has been recently recognized by UGC for SAP – DRS-I and has received a Grant of Rs 44 lakhs.

## **PUNJABI**

### **Major Activities and Achievements**

The Department of Punjabi is conducting courses for the students of M.A., M.Phil., Ph.D., Certificate and Diploma programmes. The department has organized successful literary events ---- national seminars, memorial lectures and special lectures etc. during the academic session 2015-2016. While staying committed to the research-oriented studies, our faculty members actively participated in seminars/conferences/lectures/refresher courses organized by the other academic & literary institutions.

With a remarkable legacy of being the nerve centre for Delhi School of Punjabi Criticism, the department has kept up with the changing times by hosting national seminars/symposium, special lectures annually. The platform provided by the department for live wire interactions among thinkers, writers and teachers on one hand, and between the intellectuals and the students on the other hand, has ensured that the department remains at the centre of Punjabi literature and culture's dynamic transformation through the decades.

### **Honours/Distinctions**

Prof. Rawail Singh, Head of the department received Award for Promotion of Punjabi Language by Punjabi Sahit Sabha, Delhi.

### **Publications**

Kaur, J. (2015), *Maulsari* : Pathki Parvachan, Khoj Patria, Punjabi University, Patiala.

Kumar, R (alias Ravi Ravinder) (2015, December) Punjabi Bhasha Sahit Ate Sashiyachrak : Sambali Sathiti ate Bhavikhmukhi Sambhawnavan, Internal Journal of Punjabi Literature, Vol.1.

Singh, M. (2015, July-August).Manjit Indira Kaav De Vidhi Vidhan.*Samdarshi, Punjabi Academym Delhi Issue No.* 146, (84-93) Note: Same Article has been reproduced in the book entitled “Manjit Indira Kaav : Birtant- Punar Birtant” edited by Dr. Harjoth Singh, Published by Chetna Parkashan Ludhiana (2015) (40-48).

Singh, N. (2014, September-October). Influence of Sanskrit Avayaya on Punjabi Adverb.*Samdarshi*, 141, (58-63).

Singh, R. (2015, January-February). Media : Vartman ate Bhavikh Di Talash. *Samdarshi*, 143, (56-62).

Singh, Y. (2015) Haider: Deh te Ukria Kaum da Birtant (page no. 87-93), *Filhaal*, Vol. 25.

Singh, Y. (2014, September). Itihas Dee Birtantkari: Lali. *Khoj Patrika*, Vol.79, (6-16).

## **Research Projects**

Prof. Manjit Singh, 2012 History and achievements of Delhi School of Punjabi Criticism, Punjabi Sahit Sabha, Delhi.

Prof. Rawail Singh, 2013 Translation of Novel Varanasi- A Master Piece Novel by M.T. Vasudevan Nair, Sahitya Akademi, Delhi.

Prof. Rawail Singh, 2013 Monograph Sheela Bhatia-An eminent Theatre Artist, Punjabi University, Patiala.

Dr. Nachhattar Singh 2013 Panini's Astadhyayi lipi anteran, translation and explanation in Punjabi, Department of Literary Studies, Punjabi University, Patiala.

Prof. Rawail Singh, 2014 Editing of Book "Anthology Rajasthani Short Stories, Sahitya Akademi, Delhi.

## **Conferences Organized**

Punjabi Department in collaboration with Sahitya Akademi, Delhi organized a one day National Seminar on the subject "Challenges to Punjabi Folklore and Culture" on 16<sup>th</sup> March, 2016 in the Departmental Seminar Hall of Punjabi Department..

Beside, Department organized Prof. Harbhajan Singh Memorial Lecture on 'Sufism and Punjabi Sufi Poetry' delivered by eminent scholar Dr. Nareshon 20<sup>th</sup> October, 2015 in the Departmental Seminar Hall of Punjabi Department, in collaboration with Punjabi Academy, Delhi.

Department organized Prof. S.S. Noor Memorial Lecture on 'Indian Drama Tradition' delivered by eminent theatrist and author Prof. Arjun Dev Charanon 18<sup>th</sup> February, 2016 in the Departmental Seminar Hall of Punjabi Department.

Sahitya Akademi and Punjabi Department organizes a programme "Through My Window" in which Eminent Author has spoken about renowned author and columnist Khushwant Singh on 28<sup>th</sup> March, 2016 in the Departmental Seminar Hall of Punjabi Department.

## **Conference Presentations**

Dr. Kulvir Gojra presented a research "Dilli vich Punjabi Bhasha di Sathiti" in a two days national conference Sarab Bharti Conference held at Punjabi University Patiala on 30 April-1 May, 2015

Dr. Ravinder Kumar delivered a keynote address at "World Punjabi Conference" 2015 on Punjabi Bhasha, Sahit ate Sabhiyachar : Vartman ate Bhvikh organized by Kalm Language Development Foundation, Brampton, Toronto, Canada from 13<sup>th</sup> -14<sup>th</sup> June.2015.

Dr. Ravinder Kumar presented a research paper in a National Seminar organized by Gujranwala Guru Nanak Khalsa College, Ludhiana from 30.09.2015 to 01.10.2015.

Dr. Baljinder Singh presented paper at International Conference at BGC Bhutta Ludhiana Punjab on Contemporary Yamti and Literature on 05.11.2015.

Dr. Kulvir Gojra presented a research paper entitled "Samkali Punjabi Khoj: Dasha te Disha" in Ist International Punjabi Studies Congress, 5-7 Nov., 2015, Bhutta Group of Colleges, Ludhiana.

Dr. Yadwinder Singh presented a research paper entitled Punjabi Cinema vich Roodhibadh Pachhana'n di Nirmankari, First International Punjab Studies Congress, Bhutta Group of Colleges, Ludhiana held on 5-7 November 2015.

Dr. Kulvir Gojra presented a research paper entitled “ Bawa Balwant di kaav-vikaas Yatra” in Birth Century National Seminar on Bawa Balwant, 27-28 Nov., 2015, Sahitya Academy, New Delhi

Dr. Yadwinder Singh presented a research paper entitled Bawa Balwant di Kaav Sirjan Parkirya, Birth Centaury National Seminar on Bawa Balwant, Sahitya Academy, Delhi, held on 27-28 November 2015

Dr. Ravinder Kumar presented a paper in a National Seminar at Punjabi Department, Guru Nanak Khalsa College, Yamuna Nagar and Department of Higher Education, Haryana from 09.03.2016 to 10.03.2016.

Dr. Ravinder Kumar presented a paper in a National Seminar at Baba Farid Group of Institutions, Bhatinda, Punjab from 14.03.2016 to 15.03.2016.

### **Inter-Institutional Collaboration**

Sahitya Academy, Delhi sponsored 2 events.

SS Noor Foundation, Delhi sponsored one extension lecture

### **Number of M. Phil./Ph. D. Awarded**

Ph. D.: 07

M.Phil.: 06

### **Faculty Strength**

Permanent: 09

## **SANSKRIT**

### **Major Activities and Achievements**

The Department of Sanskrit has organized the Celebration of Sanskrit Week w.e.f. 26.08.2015 to 01.09.2015 at various faculties and colleges of DU.

Dr. Om Nath Bimali, Associate Professor, Department of Sanskrit has been appointed as Foreign Professor in the Department of Indian Studies, Hankuk University of Foreign Studies, Yonginsi, South Korea. He has been deputed for one year i.e. from 28.3.2015 to 27.3.2016.

Prof. Ramesh C. Bharadwaj, Head, Department of Sanskrit has acted as Academic Co-ordinator and Indian Co-ordinator for the International Conference on " The Sanskrit and Indology in India, Russia and Neighboring Countries : Past, Present and Future" at Russian State University of Humanities, Moscow during 28-29, October, 2015 sponsored by ICCR, Govt. of India.

### **Honours/ Distinctions**

Prof. Ramesh C. Bharadwaj was awarded for the Vidyanand Sarasvati Vedic Award 2015 by Arya Pratinidhi Sabha.

Prof. Ramesh C. Bharadwaj was awarded for the Sanskrit Vidya Martanda Puraskara 2014 by Delhi Sanskrit Academy.

Prof. Ramesh C. Bharadwaj was awarded for the Sanskrit Seva Puraskara 2014 by Haryana Sanskrit Academy

### **Publications**

69 research papers/books were published by the faculty members of the Department during 2015-2016. List of publications is as follows:

Dr. Daya Shankar Tiwary (2015). Alankaradhvani in the Dramas of Bhavabhuti, *Journal of Ganga Nath Jha*, published by Rashtriya Sanskrit Sansthan, Allahabad, ISBN/ ISSN No0377-0575.

Dr. Daya Shankar Tiwary (2015). The Scientific Concept of Water Management in Sanskrit Literature, *Journal of Patliputra Journal of Indology*, Published by PCIR, Patna, ISBN/ ISSN No 2320-351X.

Dr. Daya Shankar Tiwary (2015). Application of Dhvani in the Uttararamcharita, *Journal of Patliputra Journal of Indology*, published by PCIR, Patna, ISBN/ ISSN No 2320-351X.

Dr. Daya Shankar Tiwary (2015). Ap Kalidasa Ke Natako Mein Nari Ka Sthana: Adhunka Sandarbha, *Journal of Sahridaya*, published by Nav Unnayan, New Delhi, ISBN/ ISSN No2230-8997.

Dr. Daya Shankar Tiwary (2015). Sanskritadarpana (Edited), Publisher Chaukhambha Orientalia, Delhi, ISBN: 978-81-89469-82-5.

Dr. Ranjan Kr. Tripathi (2015). Sanskritsahitya men varnit Dohad, *Journal of Shodh-Dhara*, ISBN/ ISSN No 0975-3664.

Dr. Ranjan Kr. Tripathi (2015). Mrichhakatik men NariAlankaran, *Journal of Tripathaga*, ISBN/ ISSN No 2395-4280.

Dr. Ranjan Kr. Tripathi (2015). Kalidas ki kriti Abhigyanshakuntal me Dhvani : Ek Anushilan, *Journal of Shodh-Dhara*, ISBN/ ISSN No 0975-3664.

Dr. Ranjan Kr. Tripathi (2015). Chief Editor of the Research Journal "Tripathaga", *Journal of Tripathaga*, ISBN/ ISSN No 2395-4280.

Dr. Ved Prakash Dindoriya (2015). Maharshi Dayananad Ke Anussra Shisya Evam Guru-shishya Sambandha, *Journal of Vaka Sudha* ISSN No 2347-6605

Dr. Ved Prakash Dindoriya (2016). Yoganusasana prakash, Book Parimal Publication, Delhi ISBN No 978-81-7110-543-4.

Dr. Ved Prakash Dindoriya (2016). Vakroktiivitam – Prathama Unmesa, Book Shivalik Prakashan, Delhi ISBN No 978-93-85144-76-9.

Dr. Ranjit Behera (2015). Translated a series of 40 Books “Rani Api” published by NCERT, New Delhi, ISBN/ ISSN No 978-93-5007-353-7 (Varsha Series)

Dr. Ranjit Behera (2015). Co-editor of the Book “Suktisaurabham Part - I” published by NCERT, New Delhi, ISBN/ ISSN No 978-93-5007-350-6.

Dr. Ranjit Behera (2015). Co-editor of the Book “Suktisaurabham Part - II” published by NCERT, New Delhi, ISBN/ ISSN No 978-93-5007-351-3.

Dr. Ranjit Behera (2015). Co-editor of the Book “Suktisaurabham Part - III” published by NCERT, New Delhi, ISBN/ ISSN No 978-93-5007-352-0.

Dr. Rajeev Ranjan (2015). “Vedān ga Jyotiṣ a kā kāla nirdhāraṇ a” *Journal of Shodh-Dhara*, Published by Acharya academy, Rohtak, ISSN:2348-0114.



Dr. Rajeev Ranjan (2015). “Maṅgala doṣ a parihāra aura grahoṃ kī bhūmikā” Journal of Future Samachar, Published by Future point, Delhi, ISSN-2278-7941.

Dr. Rajeev Ranjan (2015). “Prākṛ tika āpadāoṃ kā jyotiṣ aśāstra dvārā pūrvānumāna” Journal of Ved Jyotishmati, Published by Rashtriya Sanskrit Anusandhan sansthan, Darbhanga, ISSN:2349-3100.

Dr. Rajeev Ranjan (2016). “Rājanīti meṃ saphalatā aura jyotiṣ aśāstra” Journal of Shodh Navneet, Published by Stuti prachya vidya samiti, UP, ISSN:2321-6581.

Dr. Somveer (2016). “यास्काचार्य का काल निर्धारण :एक पुनराकलन” Journal of अनंता Published by Tirupati Journal Solutions, Delhi, ISBN/ ISSN No 2394-7519.

Dr. Somveer (2015). “orZeku f'k{kk&iz.kkyh ds lUnHkZ esa mifu"knh;&f'k{kk dh mikns;rk” Journal of अनंता Published by Tirupati Journal Solutions, Delhi, ISBN/ ISSN No 2394-7519.

Dr. Somveer (2015). “vkpk;Z dkdK dkysydj dh n`f`V esa xhrk dk lektn`kZu” Journal of अनंता Published by Tirupati Journal Solutions, Delhi, ISBN/ ISSN No 2394-7519.

Dr. Vijay Shankar Dwivedi (2014). “Vedkaleen Shasanyavyavstha ka Adhunik Swaroop” Journal of The Ganganath Jha Campus, ISBN/ ISSN No 0377-0575.

Dr. Vijay Shankar Dwivedi (2015). “Apstambgrihyasutra mein Varnit sanskaro ki Adhunik Prasangikata” Journal of Vedvidya, Published by Maharshi Sandipani Rastriya Vedvidya Pratisthan ISBN/ ISSN No 2230-8962.

### **Research Projects**

Dr. Balram Shukla, Research Project entitled “Mind, Morality and motives : Learnings from Indian Traditions, ICSSR, Govt. of India”, Rs. 10,00,000/-.

Dr. Meera Dwivedi, Research Project entitled “Acting & Script Writing: In the light of Sanskrit dramaturgical tradition, R&D, University of Delhi”, Rs. 1,50,000/-.

Dr. Daya Shankar Tiwary, Research Project entitled “Preparation of Textbook for B.A. (Programme) Sanskrit on Mathematical Tradition in Sanskrit (DSE-5) under the scheme CBCS, University of Delhi”, Rs. 1,50,000/-.

Dr. Dhananjay Kumar Acharya, Research Project entitled “मितभासीकरण टीका का समीचन”, Rs. 1,50,000/-.

Dr. Ved Prakash Dndoriya, Research Project entitled “Natyasastra Ke Tikakara Ke Rupa Me Acarya Udbhata Ka Avadana”, Rs. 1,00,000/-.

### **Conference Organized**

National Seminar on Higher Education by the Department of Sanskrit, University of Delhi on July 28, 2016.

National Seminar on Vedic Chronology: A Reassessment by the Department of Sanskrit, University of Delhi from 26.09.2015 to 28.09.2015.

Seminar on New Education Policy by the Department of Sanskrit, University of Delhi on November 24, 2015.

Book release function on “The Book : The Battle for Sanskrit authored by Shri Rajiv Malhotra” on 02.02.2016.

National Seminar “The learning of Sanskrit Śāstras in the present University System” on 11.03.2016 -12.03.2016.

## Conference Presentations

Prof. Ramesh C. Bharadwaj acted as Academic Co-ordinator and Indian Co-ordinator, International Conference on "The Sanskrit and Indology in India, Russia and Neighboring Countries : Past, Present and Future" at Russian State University of Humanities, Moscow during 28-29, October, 2015 sponsored by ICCR, Govt. of India.

Prof. Ramesh C. Bharadwaj participated in the Translation Conference in Bangkok, Thailand during 15-23, March, 2016.

Felicitation of Foreign delegates of World Indological Conference of ICCR at Delhi University on 23.11.2015

The following faculty members of the Department of Sanskrit, University of Delhi attended and presented the research papers in 16<sup>th</sup> World Sanskrit Conference held at Sanskrit Studies Centre, Silpakorn University, Bangkok, Thailand from 28.6.2015 to 02.07.2015.

- i. Dr. Satyapal Singh, Associate Professor
- ii. Dr. Daya Shankar Tiwary, Associate Professor
- iii. Dr. Pankaj Kumar Mishra, Associate Professor (Resigned on 21.7.2015)
- iv. Dr. Satyamurti, Reader (On Lien to JNU)
- v. Dr. Subhash Chandra, Assistant Professor

## Inter-Institutional Collaboration

1. National Seminar on '*The Chronology of Vedic Literature (Sāṃhitā to Vedāngas)* in the Light of Textual, Archaeological, Linguistic, Sociological, Mythological and Genetic sc. evidences, 26-28 Sep.2015 jointly organized by Department of Sanskrit, University of Delhi, Maharshi Sandipni Rashtriya Ved Vidya Pratishthan, Ujjain and Indian Archeological Society, New Delhi.
2. Felicitation of Foreign delegates of World Indological Conference of ICCR on direction of Hon'ble President of India Jointly organized by Department of Sanskrit, University of Delhi and Indian Council for Cultural Relation, Govt. of India.
3. Indra Vidya Vachaspati Sanskrit Elocution Competition jointly organized by Department of Sanskrit, University of Delhi and Aarsh Sahitya Trust, Delhi.
4. Prof. Narendra Nath Choudhury Memorial Lecture 2016 by Department of Sanskrit, University of Delhi.
5. Two Day National Seminar in South Delhi Campus, Department of Sanskrit on the topic The learning of Sanskrit Sastras in Present University System on 11-12 March, 2016 by Department of Sanskrit, University of Delhi, South Campus.

## Number of M. Phil./ Ph. D. Awarded

Ph.D. – 29  
M.Phil – 14

## Faculty Strength

Permanent: 24

## Other Significant Information

Department has started to following research projects:

- i. Aryan Theory in the light of Vedic Chronology.
- ii. The crux of chronology of Sanskrit Literature.
- iii. The Historiography of Sanskrit Poetics.

Accordingly, Department has organized special lectures on these topics which were reported well in National News Paper like, Hindustan Times, Dainik Jagaran, Times of India, The Hindu, Mail Today, Economic Time, Nav Bharat Times etc.

The Department also runs its own website [sanskrit.du.ac.in](http://sanskrit.du.ac.in). The information about the department people, research students, courses run by the department, syllabus, seminars and other events are regularly updated on the website.

## URDU

### Major Activities and Achievements

The teachers of the Department are actively engaged in research and publications work in different areas of urdu Literature. A number of distinguished visitors, Professors and eminent personalities visited the Department to deliver the special lectures and interact with faculty members as well as the students of the Department.

### Honours/Distinctions

Prof. S.A. Karim appointed as a Director, N.C. P.U.L

### Research Projects

- Dr. Kazim Mohd., University of Delhi, R & D grant amounting Rs.1,50,000/-
- Dr. Rehmani Najma, University of Delhi, R & D grant amounting Rs.100,000/-
- Dr. Abu Abbad Bakkar, University of Delhi, R & D grant amounting Rs.100,000/-
- Dr. Ahmad Imteyaz, University of Delhi, R & D grant amounting Rs.100,000/-

### Publications

A total number of 19 research papers/books was published during 2015-16 by the faculty members of the Department. List of Books are published as follows :-

Prof. Kamal N.M., 2015, Tanqeedi Izhar, Delhi, Kitabi Dunia,

Prof. Karim S.A., 2015 Gurez (Novel) Edited, Modern Publishing House, Delhi

Dr. Rehmani Najma, Urdu Afsane Ka Safar – 2 volumes (Edited) published by Arshia Publication, Delhi.

Dr. Abu Bakar Abbad, Taqleed Se Parey published by Book Corporation, Delhi-6.

Dr. Ara Arjumand, Tanisi Mutaliaat publised by Educational Publishing House.

Dr. Sultana Nasra, Hindustani Muashere Ka Aina Jilani Bano ka Fiction published by Arshia Publication, Delhi

Dr. Ahmad Imteyaz (2016), “Sauda ke Qasaed men Tanz ki Surat” published in “Aiwan-e-Urdu” (Referred Urdu Journal) Delhi.

Dr. Ahmad Imteyaz, (2015) Allama Iqbal ke Sufiana Tasawwurat per aik Nazar published in Allama Iqbal Hayat o Khidmat Edited by Dr. Naeem Anis, Maghrabi Bengal Urdu Academy, Kolkata, November 2015.

Dr. Kumar Mithun, 2015 Kahani Abhi Khatam Nahi Huyi' in a Urdu monthly "Naya Daur" Lucknow.

Dr. Kumar Mithun, 2015 An Article Urdu Afsano Main Dalit Rujhan published in a monthly magazine Urdu Duniya.

Dr. Kumar Mithun 2015 Published an article Ikkiswin Sadi Ke Dronacharya Aur Eklavya in publishes from Lucknow in a quarterly Hindi magazine 'Dalit Sanveg' Titled '.

Dr. Khan Irshad Ahmad, 2016 Ghalib Shanasi Ka Ek Motabar Naam : Abu Mohammed Sahar Ghalib College, Gaya Magazin (M.U. Bodh Gaya).

Dr. Khan Irshad Ahmad, (2016) 'Gurz' Ka Hero, Nayemul Hasan, Kitab Numa, Delhi,.

Dr. Khan Irshad Ahmad 2016 'GUREZ KI KIRDAR NAGARI' Aiwane Urdu, Delhi,.

Dr. Idrisi Ali Ahmad, (2015) "IQBAL-ATIYA FAIZI KI KHUTOOT KI ROSHNI MAIN" West Bengal Urdu Academy, Kolkata

Dr. Omair Shazia, 2015, Hermann Hesse: Maghrabi Funkar, Mashriqi Aarif, Aiwane-Urdu, Delhi, ISSN: 2321-2888.Safar Musalsal ka Isteara: Nasir Kazmi, Ajkal, July 2015, Delhi.

Dr. Omair Shazia, 2016 Ghalib Shanasi ke teen Aham Name, Shama-e-Hayat, Zakir Husain Delhi College (Ev.).

#### **Number of M.Phil/Ph.D Awarded**

Ph.D : 7

M.Phil : 15

#### **Faculty Strength**

Permanent :16

## **FACULTY OF EDUCATION**

#### **Major Activities and Achievements**

The Department of Education, popularly known as Central Institute of Education, is one of the most prestigious institutions in the field of education. The department offers several professional teacher education programs viz. Two Year B.Ed., Two Year M.Ed., M-Phil (Full Time and Part Time) and Ph.D. Being in various committees of NCTE, our faculty members developed new curriculum structures and plan of action for the new Two Year B.Ed. program and Two Year M.Ed. program, not only for the department and constituent colleges of the University of Delhi, but also for the entire country. All the faculty members of the department were wholeheartedly busy throughout the year in developing; modifying and enriching syllabi for various courses, implementing new programs, struggling with the situations that arose in applying new programs and resolving those. In fact, the syllabi and courses developed by our department played the role of torchbearer and model for many institutions across the

country. Prior to 2015, full-time B.Ed. and M .Ed. programs were of one year duration. M.Phil. and Ph.D. programs of the department also attracted a large number of applications for admission.

A large number of faculty members were involved in various research project funded by IASE/MHRD and Research Council, University of Delhi. Faculty members were also engaged in inter-institutional collaborations. Some of our faculty members visited institutes in other states and countries as resource persons, delegated and subject experts for various academic endeavors. Foreign delegations from Iran and Sweden visited the department for exchange of academic ideas. The department organized one international conference and four national conferences/seminars supported by various funding agencies. Prof. Namita Ranganathan joined as an editor of Indian Journal of School Health and Wellbeing. Many of our faculty members are on editorial boards, advisory committees and reviewer panels of national and international journals. Several academic activities are a regular part of the departmental activities through various student societies like Civics Society, History Society, Human Right Association (AAHRAV) and Educational Technology Society (SOCRATES).

### **Publications**

Kanvaria, V.K. (2016). *Perspectives and perceptions on academic writing and citation*. Delhi: V. L. Media Publisher.

Kanvaria, V.K. (2015, Under printing). ICT augmented elementary teaching and learning. *Primary Teacher*

Kumar, S. (2016). *Ulajhti Dharmnirpekshita*. Anveshika.

Unterhalter, E., McCrowan, T. and Rampal, A. (2015). Conclusion: An introduction with Anita Rampal in T. McCrowan and E. Unterhalter (Eds) *Education and International Development*. London: Bloomsbury.

### **Research Projects**

Anamika, IASE-MHRD, 2015-16 entitled “Pedagogical Experience with the NCERT History Textbooks”, Rs.0.5 Lakh.

D. Parimala, R& D Scheme, University of Delhi, 2015-16 entitled “Understanding about Northeastern Students on Their Higher Education Status in Delhi University” Rs.1.5 lakh.

Kanchan, IASE-MHRD, 2015-16 entitled “Reforms in Higher Education: A Study of Teachers’ Perception”, Rs.0.5 Lakh.

Vinod Kumar Kanvaria, IASE-MHRD, entitled “A study on Academic Writing and Citation”, Rs.0.5 Lakh.

### **Conferences Organized**

International South Asian Conference on “Social Policy in Higher Education: Challenges and Possibilities funded by ICSSR and University of Delhi and organized by D. Parimala during November, 2015.

National Conference on “Emerging Trends in Science and Mathematics Education”, funded by IASE-MHRD and organized by Sadhna Saxena, Haneet Gandhi and Yukti Sharma during February, 2016.

National Conference on “Inclusion Socio: Political Perspectives”, funded by IASE-MHRD and organized by Pankaj Arora, Sandeep Kumar and Vandana Saxena during February, 2016.

National Conference on “Teacher Education : Issues and Challenges”, funded by IASE-MHRD and organized by Ashish Ranjan, M.Rajendran and Ritu Bala during February, 2016.

National Conference on “Disability, Mental Health and Teacher Preparation: Implications for Schools”, funded by IASE-MHRD and organized by Namita Rangnathan, Alka Behari and Sailaja Chennat during March, 2016.

### **Inter-Institutional Collaboration**

M. Rajendran titled, “Inter-institutional Review Meeting on EPC II Critical Understanding on ICT in Education”, with B.Ed colleges of University of Delhi, funded by MHRD, Rs.5,000/-.

Poonam Batra titled, “B.El.Ed. Curriculum Review”, with B.El.Ed. colleges of University of Delhi, funded by MHRD, Rs.5,000/-.

Poonam Batra titled, “B.El.Ed. Regional Resource Centre for Elementary Education”, with B.El.Ed colleges of University of Delhi.

Vinod Kumar Kanvaria, titled, “Inter-institutional Review Meetings for Re-visiting Syllabus of Pedagogy of Mathematics Stream Course of B.Ed. Program”, with B.Ed. colleges of University of Delhi, funded by MHRD, Rs.5,000/-.

Dr. Yukti Sharma, titled, “Inter-institutional Review Meeting on Readings for Pedagogy Course Biology”, with B.Ed. colleges of University of Delhi, funded by MHRD, Rs. 5,000/-

### **M.Phil./Ph.D. Degrees Awarded**

Ph.D. Awarded: 16

M.Phil. Awarded: 13

### **Faculty Strength:**

Permanent: 28

### **Other Significant Information**

The department has its own website <http://www.cie.du.ac.in> which is updated almost every day. The website is visually and hearing challenged-friendly and maintained by a highly dedicated team. It is highly enriched with the information with the titles Home, About Us, Faculty, Academic, Students, Scholars, Colloquium/Viva, Admissions, IQAC, Resources, CIE Staff, CIE Alumni Website, Honour Board, Infrastructure & Facilities, Useful University Links, Useful Web Links, Annual Report, Special Web Resources for Visually & Hearing Challenged, Anti-Ragging and Contact Us. The website is explored regularly by all the students, constituent colleges and faculty members. The department had its own placement cell working for its students from all the programmes, The department has a vigilant Anti-ragging cell as per UGC guidelines. The department also maintains a school attached with it namely CIE Experimental Basic School which works under direct guidance and supervision of the departmental authority. The School has a very optimal teacher-student ratio especially as compared to other schools in Delhi.

## **FACULTY OF LAW**

### **Major Activities and Achievements**

The Faculty of Law consists of three functional Centres viz. Campus Law Centre, Law Centre-I and Law Centre-II. The LL.B. courses are conducted in these three Centres and the LL.M., M.C.L. and Ph.D. are conducted at the level of the Faculty.

The Faculty organized an orientation programme to acquaint the students of the LL.M. class of 2015-16 with the faculty members and the integral facilities provided by the institution. Hon'ble Mr. Justice A.K. Sikri, Judge of the Supreme Court of India, graced the occasion as the Chief Guest. In his inspiring speech to the students, he focused on hard work and specialization as the key to gain an edge over the others in the legal profession. Prof. M. Afzal Wani, Head and Dean, University School of Law and Legal Studies, GGSIPU, Dwarka, Delhi, delivered the keynote address.

Faculty conducts entrance test for LL.B., LL.M. and Ph.D. students every year in the month of June for admission of around 3000 candidates. It admits Ph.D. candidates twice a year on the basis of their performance and research proposal.

### **Conferences Organized**

Faculty of Law in collaboration with Law Centre-I organised International Conference on Global Legal Education, Convergence of National Laws, Best Practices in Teaching and Research (March 11,2016).

### **Faculty Strength**

Permanent Faculty: 45

Ad-hoc Faculty: 81

Guest Faculty:10

## **CAMPUS LAW CENTRE**

### **Major Activities and Achievements**

Various national and international conferences, seminars and workshops were conducted in 2015-16. The Legal Service Clinic has been inaugurated in October 2015 and the Legal Aid Society has held regular outreach and awareness programmes.

### **Honours/Distinctions**

Campus Law Centre was ranked at 3<sup>rd</sup> position among Law Colleges of the country according to the survey conducted by India Today and Nielson Company in 2015 and ranked second in the survey conducted in 2016. [As retrieved from <http://indiatoday.intoday.in/bestcolleges/2016/ranks.jsp?ST=Law&Y=2016>].

### **Publications**

The journal of the Campus Law Centre is published annually. Published third volume of Journal of the Campus Law Centre ie, III JCLC (2015) ISSN:2321-4716.

## **Research projects**

Prof. Kamala Sankaran, Research Paper commissioned by the International Labour Organization, (November-December 2015) pertaining to International Labour Standards, received consultancy sum of USD 10,000

Prof. Usha Tandon, Prepared a country Report on International Research Project on "Climate Change Commitments: An Ethical Analysis" conducted by University of Auckland, NZ and Widener University, USA with Support from IUCN World Commission on the Environmental Law and its Specialist Ethics Group (2015).

## **Conferences Organized**

An International Conference on "Conservation of Biodiversity and Sustainable Energy: Law and Practice" held from 12<sup>th</sup>-14<sup>th</sup> February 2016.

A pre-legislative Panel discussion on "The Rights of persons with Disabilities Bill, 2014" organized on 29<sup>th</sup> October, 2015.

Workshop on "Success in Oral Advocacy Competition" held on 15<sup>th</sup> January, 2016.

A seminar on criminology organized on 27<sup>th</sup> January, 2016.

A seminar on "Environment Law" organized on 30<sup>th</sup> March, 2016.

A workshop on "Planet 50-50 by 2030- Gender Equality" held on 16<sup>th</sup> March, 2016.

Major events organized by CLC in 2015-16 included the celebration of the Foundation Day of the Legal Service Clinic located in CLC in October 2015 wherein several activities such as quiz, debate and logo making competitions were organized to raise legal awareness. CLC Legal Aid Society has held regular outreach and awareness programmes in remote areas, slums, villages as well as industrial areas, various schools and juvenile homes.

CLC organised various National, International Conferences and Seminars. An International Conference on "Conservation of Biodiversity and Sustainable Energy: Law and Practice" was held in February 2016 which witnessed global participation from South Korea, South Africa, UK, Nigeria, Algeria, Mauritius, Indonesia and Bangladesh. The Special Guest of Honour, Hon'ble Mr. Justice A. K. Patnaik, Former Judge, Supreme Court of India and the Chief Guest, Mrs. Maneka Sanjay Gandhi, Hon'ble Union Cabinet Minister, Women and Child Development and formerly, Minister of Environment and Forest delivered the Inaugural address.

A seminar on Environmental Law was organized in March 2016 wherein a detailed analysis of some of the landmark judgments concerning the impact of industries on the environment and biodiversity provided a plethora of information beneficial to the Participants. Professor Armin Rosencranz, Consulting Professor, International Relations, Stanford University, U.S.A. was the Key Note Speaker at the Seminar.

The students of CLC were briefed on the intricacies of various advocacy skills through a workshop conducted in January 2016 on "The Success of Oral Advocacy Competition". The workshop was conducted by Prof. (Dr.) Susan L. Karamanian, Dean for International and Comparative Legal Studies, George Washington University School of Law. A workshop was also conducted on "Planet 50-50 by 2030- Gender Equality" in March 2016. Further Campus Law Centre took the initiative to hold a Pre-Legislative Panel Discussion on the Rights of Persons with Disability Bill 2014 in October 2015.



Campus Law Centre also has a vibrant Moot Court Society which has been organizing moot court competitions. The prestigious 12<sup>th</sup> K.K. Luthra Moot Court Competition was held in January 2016 attracting participation of 50 teams including international teams from U.S., U.K., Indonesia, Sri Lanka and Pakistan. Campus Law Centre was the winner at 4<sup>th</sup> NALSAR NFGC National Law Moot Court Competition, 2015, won the second best memorial award at 17<sup>th</sup> D.M Harish Memorial Government Law College International Moot Court Competition, 2016 organized by GLC, Mumbai and the “Best Advocate” at third KIIT National Moot Court Competition, 2015.

### **Inter-Institutional Collaborations**

Campus Law Centre in association with Delhi State Legal Services Authority provided legal awareness by conducting various activities in October namely

- Five students from the Legal Aid Society were appointed by the Delhi State Legal Services Authority to assist the Delhi Commission for Women. Their main work was to assess the complaints received by the DCW and help the DCW in legal research from 7<sup>th</sup> September – 1<sup>st</sup> October, 2015.
- Ten members of the Legal Aid Society attended the conference to launch the seven new schemes introduced by the National Legal Services Authority on 7<sup>th</sup> November, 2015.
- Legal Aid Clinic Foundation Day celebrated on 10<sup>th</sup> October, 2015 in the CLC.

Campus Law Centre in collaboration with Centre for Social Research (CSR) with the support of Facebook, held a workshop on “Social Surfing- Access is Empowerment” in November 2015. The Media & Communication wing of CSR through this workshop not only contributed towards increasing awareness, and informing the students about various tools available online but also shed light on how to use online resources as a powerful instrument to bring change.

### **No. of M.Phil/ Ph.D. Degrees Awarded**

13 Ph.D awarded

### **Faculty Strength:**

Permanent : 10  
Ad-hoc : 28  
Guest Faculty : 07

## **LAW CENTRE-I**

### **Major Activities and Achievements**

Law Centre I is the largest centre of the University in terms of the strength of the faculty members and student intake. Continuing its endeavours in the interest of academics and students, the Centre successfully completed to National and State level Moot Court Competition, conducted Legal Aid programmes and organized special lectures. It also published the 5<sup>th</sup> Volume (2014) of its Flagship Journal, Journal of Law Teachers-India (JOLT-I)

### **Honours/Distinctions**

Prof. Ved Kumari upon invitation by the Ministerio Publico Tutelar Podel Judicial de la Ciudad de Buenos Aires, Argentina, presented a paper “Issues Relating to Juvenile Justice: A Comparative Perspective” in the International Seminar on Child Rights: Present and Future held in Buenos Aires, Argentina on Nov. 19-20, 2015.

Prof. Usha Razdan has been awarded scholarship by Max Planck Institute for Foreign and International Criminal Law, Freiburg, Germany, enabling her to conduct research on the topic “Violence Against Children: Search for a Viable Cause” from 20<sup>th</sup> May to 20<sup>th</sup> July 2015 in Germany.

Prof. Ashwani Kumar Bansal became Member, Executive Council, University of Delhi, highest decision making body of University of the University; Visiting Faculty, Indian Law Institute, Indian Institute of Public Administration, IIT Roorkee.

Dr. Anju Vali Tikoo chaired a session on Surrogacy in India: Medical, Legal, Ethical Issues in the National Seminar on Surrogacy- Issues and Challenges, organized by National Law University, Delhi in collaboration with National Commission for Women on 14<sup>th</sup> Sept. 2014

Dr. L. Pushpa Kumar chaired one of the sessions on Environment and Resources Protection on 11<sup>th</sup> Jan. 2015 in the Students Workshop Programme of 3-day World Congress on International Law, organized by Indian Society of International Law, New Delhi.

Dr. Siddharth Mishra has been chosen as an Academic Friend - UNHRC Human Rights Advisory, Geneva, Switzerland, 2016

Dr. Gireesh Kumar chaired the keynote address session in National Seminar on Gender Justice vis-à-vis India’s Cultural and Family values, conducted by NUALS, Kochi, Kerala on 2<sup>nd</sup> Feb, 2015

### **Publications**

The Centre published the 5<sup>th</sup> Volume (2014) of its Flagship Journal, Journal of Law Teachers-India (JOLT-I), Date of Publication: Aug. 31, 2015.

Bansal, A.K. (2014). *Law of Trade Marks In India*, Thomson Reuters, 3<sup>rd</sup>Edn.

Kaur, S. (2015). *Service Tribunals- An Introduction*, Satyam Law International, Istdn.

Ratnabali, Kongbrailatpam(2015), *Law and Developmental Policies: Impact on Tribal’s Cultural and Religious Spaces*, Abhijeet Publications, New Delhi.

Bansal, A.K. (2014). Insights into Secret Issues of IPR Law, *Delhi Law Review*, 32, 1.

Bharti, S. (2013). Law Cries for Change: Assessing the MTPA, 1971 for Mentally.

Retarded Women, *Delhi Law Review*, 32, 165-180. (Journal issue published in 2015).

Bharti, S. (2014). Animals are not Property: Are they Persons then?, *Journal of Law Teachers of India*, 5, 88-96.

Dass, Poonam, (2015). A Critical Appraisal of Legal Regime Governing Cyber Contracts in E-Commerce, *Journal of Law Teachers of India*, 6 (1), 21-34.

Kaur, S. (2015). Doctrine of Judicial Review and Decisions of Administrative Tribunals, *Journal of Law Teachers of India*, 6 (1), 1-20.

Kumari, V. & Barn, R. (2015). Sexual Violence and Criminal Justice Administration in India, *British Journal of Criminology*, 55(3), 435-453.

Kumari, V.(2014). Juvenile Justice Bill 2014- A Regressive Step, *Journal of Indian Law Institute*, 56 (3), 303-319.

Pankaja, P.B. (2015). Corporate Social and Environmental Responsibility as a Tool of Green Economy, *MC Stanford Journal of International Management*, 1(10), 53-64.

Pankaja, P.B. (2015). Uniform Civil Code – Half Way Around – Blue Print for the Other Half Way, *Delhi Law Review*, 34, 157-175.

### **Research Projects**

Prof. Ashwani Kumar Bansal, R&D Project of Rs. 70,000 sanctioned by University of Delhi.

Dr. Sarbjit Kaur, R&D Project of Rs. 70,000 sanctioned by University of Delhi

### **Conferences Organized**

Law Centre-I in collaboration with National Human Rights Commission of India, New Delhi, organised the 4<sup>th</sup> NHRC-LCI National Moot Court Competition at the Faculty of Law, University of Delhi on 18-20<sup>th</sup> March, 2016. In all, 48 teams from all over the country participated in the national level moot event.

Law Centre-I in collaboration with National Human Rights Commission of India, New Delhi, organised the 3<sup>rd</sup> NHRC-LCI National Moot Court Competition at the Faculty of Law, University of Delhi on Feb. 20-22, 2015. In all, 36 teams from law schools. The Semi-final and Final Rounds were judged by Hon'ble Justices of the Supreme Court, NHRC Chairperson, and the Judges of the High Court of Delhi.

LC-I organised the XII All Delhi Moot Court Competition, 2014 on Nov. 15, 2014.

Organized a Special Lecture on “*Selection and Role of Governor in Victoria (Australia): Comparison with India*” by H.E. Hon. Alex Chernov, AC, QC, The Governor of Victoria, Australia, on Feb. 13, 2015 at Conference Hall of the Centre.

Held an Orientation Programme for LL.B. First Year Students (2014-15), on July 28, 2014 in which students had the opportunity of interacting with Sh. Harish Salve, Senior Advocate, Supreme Court (Former Solicitor General of India) and Ms. Pinky Anand, Additional Solicitor General of India.

Prof. Ved Kumari conducted a Training and Workshop on “International Law Relating to Women and Children and its Impact on Indian Law” & “Protective Legislations Relating to Women and Children” in the *National Conference of Judges of the District Judiciary on Laws Relating to Women and Children*, organized by/at National Judicial Academy, Bhopal from Feb. 20-22, 2015.

“Tools and Techniques for Initiating Research Activities in the Training Institutions” & “New Vistas of Research for the Judicial Academies” in the *National Conference of State Judicial Academies on Continuing Judicial Education: Review of Research Activities and Refresher Programme*, organized by/at National Judicial Academy from Jan. 10-11, 2015

“Child Access, Visitation and Custody: Best Practices for Promoting Best Interests of Children” & “Key Issues in Child Rights Protection and Juvenile Administration” in *Professional Development Training Workshop on Justice to Children and Child Rights Advocacy*, organized by IBA-CLE Chair & MILAT in association with the School of Law, TATA Institute of Social Sciences, Mumbai from Feb. 28 to March 4, 2014.

“Protection of Children against Sexual Offences Act and Delhi High Court Guidelines” in the *Training for Judicial Officers in Delhi on Making Court Room Practices Responsive towards Victims of Sexual Offences*, organized by Delhi Judiciary on Feb. 8-9, 2014

“Human Rights Teaching and Research” in First Annual Law Conference of Indian Law Institute on “*Human Rights: Contemporary Issues and Challenges*”, held at Indian Law Institute, New Delhi on Dec. 10, 2014.

“Juvenile Justice (Care and Protection of Children) Bill, 2014: Pre and Post Amendment Situation of the Juvenile Justice System” in the *National Conference of the Principal Magistrates and Members of Juvenile Justice Boards*, held at National Judicial Academy on Nov. 21-23, 2014.

“Juvenile Justice Jurisprudence: Indian History, Fixing Cut Off and Relevance to Criminal Responsibility” in *Round Table on Juvenile Bill*, organized by Human Rights Law Network at Kochi on Nov. 8, 2014.

### **Conference Presentations**

Dr. Poonam Dass presented a paper on “Reprographic Rights of Owners of Copyrighted Works in Digital Era and Free Use for Educational Purposes- An Analysis of International and National Provisions”, in the *3-day World Congress on International Law: Contemporary Issues of International Law*, organized by Indian Society of International Law, Delhi on Jan. 11, 2015.

Dr. Gireesh Kumar presented a paper on “Health Rights of Differently Abled: The Charity versus Right Approach”, in the *National Seminar on Health Law and Policy*, conducted by Department of Law, University of Kerala on April 23-25, 2014.

### **Inter-institutional Collaborations**

The Centre in collaboration with the NHRC organized “National Moot Court Competition from Feb. 20-22, 2015, funded by National Human Rights Commission, The fund of Rupees 6 lakh forty thousand approx. was received from NHRC

### **No. of M.Phil/ Ph.D. Degrees Awarded**

13 Ph.D awarded

### **Faculty Strength**

Permanent-21; Ad-hoc-32

### **Other Significant Information**

Outreach and other Programmes 2015-16 organized by Law Centre-I

(i) *Skit and Street Plays*-To create legal awareness among the masses and to apprise them of their right to free legal services,13 students performed street plays(a) 8th January 2016: at Campus Law Centre(b) 26 January 2016:at Tihar Jail for prisoners. (c)31<sup>st</sup> January 2016 at Sangam Park, (d) 12th February 2016at VSPK International School, Rohini, (e) February/March 2016: 3 plays in Rohini District Court.

(ii) *Internship with Delhi Commission for Women (DCW) in September 2015-* Four Para-Legal Volunteers (PLVs) assisted the Delhi Commission for Women in the Filtering and screening of Pending Cases, formulation of Standard Operating Procedure (SOPs), and Complaint Handling Policy.

(iii) Swachh Bharat campaigns were held in the campus and surrounding areas on more than one occasion in which most of the teachers and a large number of students participated.

## LAW CENTRE-II

### Major Activities and Achievements

Law Centre-II, Faculty of Law is situated in the south campus of University of Delhi. It conducted Orientation Programme, provided Legal Services to the weaker and vulnerable sections of the society, organized Legal Aid camp, Special Lectures and Clinical Training of the students.

### Honours/Distinctions

Professor Poonam Pradhan Saxena has been appointed as Vice Chancellor of National Law University, Jodhpur.

Professor B.T. Kaul, has been appointed as the Chairperson, Delhi Judicial Academy on 12.05.2014 and is occupying this post till date.

Anupam Jha was awarded Raman Fellowship by UGC, pursued post doctoral research in University of Kansas, USA from October 2014- October 2015.

### Publications

Ahuja, V.K. (2016). *Public International Law*, First Edition, LexisNexis Butterworths.

Ahuja, V.K. (2015). *Intellectual Property Rights in India*, Second Edition, LexisNexis Butterworths.

Ahuja, V.K. (2015). *Law of Copyright and Neighboring Rights: National and International Perspectives*, Second Edition, LexisNexis Butterworths.

Dr. Vageshwari and Dr. Sunanda Bharti (eds.) (2015) “Book of Select Papers”, Faculty of Law, University of Delhi.

Jha, Anupam (2015). Fukushima Effect: Nuclear Histories, Representations and Debates. Ch. 06 of this Book The Fukushima Effect on India’s Science, Technology ( Nuclear Energy) and Environmental Governance. (S.I.) Routledge.

Deswal, Vageshwari (2015), Decoding the Intellectual Lodestar of ‘ Rarest of Rare cases dictum, Delhi Law Review, Vol 34.

Jha, Anupam (2015). The United States and Climate Change Conference (COP -21): Challenges to Reducing Green House Gases. *The Federal Lawyer*, Vol. 62, No. 10.

Jha, Anupam (2015). Prognosis of India’s Position on Climate Change at COP – 21. *American Bar Association* Vol. 17, No. 5

Sharma, Pinki, (2015). “Sexual Violence within Marriage as Violation of Fundamental Human Rights: Need for Criminalization” *Delhi Law Review*, Vol 34.

## **Research Projects**

3 Research Projects, during this period, funded by UGC and DU.

## **Conferences Organized**

Law Centre-II, Faculty of Law, University of Delhi, organized an Orientation to welcome the freshers of 2015-16 on 3<sup>rd</sup> August, 2015. The Orientation Day aimed to acquaint the students with the faculty members and the integral facilities provided by the institution. Hon'ble Mr. Justice Jagjivan Ram Midha, sitting Judge of The Delhi High Court, graced the occasion as the Chief Guest. Prof. M. Afzal Wani, Head and Dean, University School of Law and Legal Studies, GGIP University, Dwarka, Delhi, gave the keynote speech. Prof. B. T. Kaul, Chairperson, Delhi Judicial Academy, shared his valuable experiences of Law Centre-II and highlighted its legacy. Prof. A. K. Kaul, former Head and Dean, Faculty of Law, University of Delhi and former Vice Chancellor of NLU, Jodhpur and Ranchi, delivered an inspiring speech on functioning of Indian Legal system and its problems. In the last address, Dr. Kiran Gupta, In-Charge, Law Centre-II instilled the values of the institution in the students which rest on sincerity and discipline.

One day National Conference was organized by Law Centre-II, on 9<sup>th</sup> March, 2016 on the topic "Role of Women in Nation Building" at the Centre Auditorium. Chief Speaker of the event was Prof. Poonam Saxena, Vice Chancellor, NLU, Jodhpur, Pinki Anand, Additional Solicitor General of India, Dr. Rajni Abbi, Associate Professor, Law Centre-II, and M.L.Sharma, ex member of Central Information Commission.

Special guest lectures were delivered by Dr. Rajesh Gupta, advocate, to the students of VIth Semester on the topic titled "Law relating to dishonour of Cheques",

The Special lecture of Mr. Feng Qinghu, Deputy Secretary General, Asian African Legal Consultative Organization (AALCO) and Mr. Parthan S. Vishwanath, Legal Officer, AALCO was organized on 16 March 2016 in Law Centre-II. The topic of the lecture was "Role of International Organizations in the development of International Law". His lecture was followed by Mr. Parthan's interaction with students relating to internship opportunities at AALCO.

## **Inter-Institutional Collaboration**

The Legal Services Clinic which was established at the premises of Law Centre-II on 17th November, 2014 in collaboration with Delhi Legal Services Authority, New Delhi. The clinic is providing legal consultancy and legal aid services to the needy. This clinic has organized its camps at various places in NCR. A group of para-legal volunteers are providing free legal aid services at the nearby police stations and on the spot services.

## **Number of M.Phil/ Ph.D. Degrees Awarded**

13 Ph.D awarded

## **Faculty Strength**

Permanent-13

Ad-hoc-21

Guest Faculty-04

## **Other Significant Information**

### **Legal aid camp**

The students and faculty of Law Centre-II organized two Legal Aid Camps one at a village in Greater Noida, UP and another in Najafgarh. Teams of 40 students accompanied by faculty members and lawyers visited these villages to spread legal awareness.

Project Competition was held by Legal Service Clinic on the topic “ Right of accused”. The prizes were distributed by Mr. Dharmesh Sharma, Higher Judicial Services, Delhi and presently functioning as Member secretary, Delhi State Legal Service Authority.

Prison Visit was conducted by a team of 40 students accompanied by 3 faculty members visited Tihar Jail in the month of February, 2016. They were apprised of the rights of the accused and the role of prisons like the Tihar Jail in their rehabilitation.

Students visit of Court for clinical training was organized for students who visited the District court Dwarka for clinical training. Each student was called for two days.

Sports Week was organized in Law Centre-II from 11-13<sup>th</sup> April, 2016. It gave an opportunity to all the students to compete with each other in a number of sports events. Apart from Cricket, Football, Tennis, Badminton, Table Tennis, Volleyball and various track events, a chess competition was also organized. Winners were distributed the Prize, by celebrity, Maha Medha Nagar.

Students participation in International conference by NGT: 50 students were involved in the successful organization of International Conference by National Green Tribunal in March, 2016.

## **FACULTY OF SCIENCE**

### **ANTHROPOLOGY**

#### **Major Activities and Achievements**

The Department of Anthropology imparts teaching in all major branches of anthropology. Currently having a faculty strength of twenty-two, all internationally distinguished scholars, with publications in high-impact journals, the Department is a leading Department in teaching and research in anthropology not only in India but also in South Asia. The year of 2015 was of great significance to the Department as the Master's programme in Forensic Science was introduced. The Department has an impressive list of alumni engaged in different spectra of professional and bureaucratic life. It featured among the top 100 in QS World University ranking by Subject 2016 -- the only Anthropology Department from India to achieve this status. To honour this achievement, a two-day national seminar “Celebrating Anthropology: The Human Science” was organized. During 2015-16, the department organized three seminars, one refresher course, discussion sessions, and workshops.

#### **Honours/Distinctions**

Dr. Indrani Chattopadhyaya was felicitated with 'Prabha-Shree' award by the Governor, Uttar Pradesh, for Research on rock-art in Sonbhadra District, U.P. in 2015.

#### **Publications**

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### **Research Projects**

Prof. A. K. Kapoor, R & D Grant from University of Delhi, 2015-2016 entitled “Environmental and Biological Dynamics among Tuberculosis Patients of Delhi”, completed.

P. C. Joshi (Co-Principal Investigator), WHO, 2015 entitled “Awareness of antibiotic resistance and antibiotic prescription for treatment of acute upper respiratory tract infection and diarrhoea in children: a qualitative study among primary care doctors and community pharmacists in NCT, Delhi” with Department of Pharmacology, Vallabhbhai Patel Chest Institute, New Delhi and Department of paediatrics, Maulana Azad Medical College, New Delhi”, ongoing.

P. R. Mondal, UGC, entitled “An anthrogenetic study of cardiovascular diseases among the Brahmins of North India”, 10.573 Lakh.

K. N. Saraswathy, Department of Biotechnology (DBT), entitled “A case-control study of global and MTHFR gene specific methylation vis-à-vis pregnancy complications in north Indian population”, 41.17 Lakh.

K. N. Saraswathy, Department of Biotechnology (DBT), entitled “Study of air pollution and DNA methylation vis-à-vis cardiovascular outcomes/variables in rural and urban populations of north India”, 53.70 Lakh.

K. N. Saraswathy, DST-PURSE Programme, University of Delhi, entitled “Molecular Basis of High Altitude Adaptation-Maladaptation”, 37.76 Lakh.

K. N. Saraswathy (Co-PI), DST-PURSE Programme, University of Delhi, entitled “Pysco-social and biological determinants of cardio-vascular disease : A study among Bhils and Meenas of Rajasthan, India”, 1.20 crores.

K. N. Saraswathy, Research Council, University of Delhi, entitled “Impact of hyperhomocysteinemia on cognition: A study among North Indian population”, 3 Lakh.

S. L. Malik & G.K Kshatriya, UGC, entitled “Prevalence and covariates of overweight / obesity among children and adults in urban population of North India and to establish anthropometric indices for general and regional obesity”.

R. P. Mitra, Department of Tribal Welfare. Madhya Pradesh Government, entitled “Evaluation of CCD programs for the Bharais of Madhya Pradesh”, 3.50 Lakh.

B. Murry (co-PI), Department of Biotechnology (DBT), entitled “A Study on the Genomic Diversity among four (Anal, Chothe, Thadou and Paite) Tribal Population Groups of Manipur”.

B. Murry, ICSSR, entitled “Bio-Social Determinants of Demographic Dynamics and Maternal and Child Health among the Nagas of Dimapur District, Nagaland”.

B. Murry, UGC, entitled “Molecular Screening of Glucose-6-Phosphate Dehydrogenase Deficiency and Thalassemia among the Meitei Brahmins and Meitei Muslims of Manipur”.

A. Zhimo, R & D Grant from University of Delhi, 2015-2016 entitled “Indigenous Knowledge, Ethnobotany and Narratives: A New Ethnographic perspective”, 1.50 Lakh, ongoing.

Dr. Vipin Gupta, GPS Alliance, USA, entitled “Urbanization and exposure to air pollution”, \$99,500.

Meenal Dhall, R & D Grant from University of Delhi, 2015-2016 entitled “Reproductive health and nutritional markers among adult females of Delhi”, 3 Lakh, ongoing.

Meenal Dhall, DST Start up grant for Young Scientists, 2015-2018 entitled “Quality of life with metabolic syndrome and its associated genetic markers among North Indian adults”, 25 Lakh, ongoing.

Kiranmala Devi, R & D Grant from University of Delhi, entitled “Heritability of Vitamin B12 Deficiency: A familial study among North Indian Population”, ongoing.

Mitashree Srivastava, R & D Grant from University of Delhi, 2015-2016 entitled “Along the Buddhist Trail: An Anthropological Voyage to the Buddhist world of National Capital Region, India”, ongoing.

Shivani Chandel, R & D Grant from University of Delhi, 2015-2016 entitled “A study on Frailty Phenotype in older adults and its association with Anthro-physiological variable”, ongoing.

Chakraverti Mahajan, R & D Grant from University of Delhi, 2015-2016 entitled “2015-16 Islamic Law and Customary Practices of Property Inheritance among Gujjars of Jammu and Kashmir” sponsored by Delhi University Research and Development Grant (1.50 Lakh)”, 1.50 Lakh.

Indrani Chattopadhyaya, R & D Grant from University of Delhi, 2015-2016 entitled “An ethno-archaeological study of mobility patterns during Prehistoric period in Madhya Pradesh, central India”, 1.50 Lakh.

M. Kennedy Singh, R & D Grant from University of Delhi, 2015 - 2016 entitled “Problems and challenges of urban slum dwellers of Delhi: A holistic study”, 1.50 Lakh.

### **Conference Presentations**

National Seminar on “Celebrating Anthropology : The Human Science”, 2016, participants: 125, supported by Research Council, DU.

National Seminar on “Anthropology and Environment”, 2016, participants: 122, supported by Research Council, DU.

National Seminar on “Anthropology and Health”, 2016, participants: 136, supported by Research Council, DU.

National Workshop on “Recent Trends in Forensic Science and its Utility”, 2016, participants: 146, supported by Research Council, DU.

National Seminar on “The Complexity of Naga Political Imbroglio: Insights from Anthropology”, 2015, participants: 62.

National Seminar on “Anthropology of Cardiometabolic Adversities”, 2015, participants: 136, supported by Research Council, DU.



Training workshop on “Ethnographic Research”, 2015, participants: 38, supported by Research Council, DU.

One Day Seminar on “Embodied Discriminations: Ethnicism, Racism and Casteism: Comparative perspectives from India, Japan and Korea”, 2015, participants: 43.

### **Inter-Institutional Collaboration**

Prof. A. K. Kapoor, PI in project sponsored by LIONEX Diagnostics and Therapeutics, Germany, “Prevalence of Tuberculosis among Migrants and Settled Populations of Delhi: Gender and Socio-cultural Differentials”. Project Completed and Report submitted.

Prof. P. C. Joshi, Co-PI in project sponsored by WHO, in collaboration with Department of Pharmacology, Vallabhbhai Patel Chest Institute, New Delhi and Department of Paediatrics, Maulana Azad Medical College, New Delhi, “Awareness of antibiotic resistance and antibiotic prescription for treatment of acute upper respiratory tract infection and diarrhoea in children: a qualitative study among primary care doctors and community pharmacists in NCT, Delhi”, 2015.

### **No of M.Phil/Ph.D. awarded**

Ph.D.: 10

M.Phil: 15

## **BOTANY**

### **Major Activities and Achievements**

Organisation and evolution of genomic segments harbouring miRNA and transcription factor genes with associated cis-regulatory elements has been studied. Studies on identifying and characterizing Nitrosative and Abiotic (cold) stress Signal Transduction components following a proteomics approach in *Brassica* (indian mustard) and Seabuckthorn (a Himalyan shrub) have been done. Reproductive biology of RET tree species has been pursued and the baseline data has been generated and reasons for the lack of double fertilization in the Podostemaceae is in the process. In-vitro and in-silico anti tumorus activities were evaluated using natural plant extracts as well as isolated bioactive compounds of different plants. Molecular systematic study of Indian *Alysicarpus* and *Indigofera* has been completed. Molecular phylogeny of *Crotalaria* L. (Fabaceae) and phylogeny and biogeography of Indian Cucurbitaceae is being studied. Functional mechanism in the light of climate change and its effects on the functioning of the Delhi ridge species is being studied. Intense association of acrocarpous mosses with soil fungi is one of the strategies to absorb nutrients unavailable for the plants. *Glomus* is found in rhizosphere soil of all moss species.

### **Honours/Distinctions**

Prof. S.C. Bhatla, Associate Editor, Plant Signalling and Behaviour an international journal. Taylor and Francis. USA. Announced in May 2015.

Prof. Renu Deswal, Editor of Journal of Proteins and Proteomics, a Proteomics Society of India’s official Journal.

Prof. Renu Deswal, Editor for Frontiers in Plant Physiology Journal.

Prof. Renu Deswal, National Award for significant contribution in Seabuckthorn research by Seabuckthorn Association of India at “The 7<sup>th</sup> Conference of the International Seabuckthorn Association (ISA2015)”.

Prof. Arun K. Pandey, awarded Prof. Panchanan Maheshwari Medal of the Indian Botanical Society, 2015.

Prof. Veena Agrawal, Member of the Editorial Board of the Medicinal and Aromatic Plants Abstracts (MAPA), by National Institute of science Communication and Information Research (NISCAIR), CSIR, Delhi.

## Publications

Jain, P., David, A., and Bhatla, S.C., 2016. A novel protocol for detection of nitric oxide in plants. *Methods in Molecular Biology* ISSN: 1064-3745; *Plant Nitric Oxide Research: Methods and Protocols*. Humana Press, U.S.A/Springer Protocols

Singh, N. and Bhatla, S.C., 2016. Nitric oxide and iron modulate heme oxygenase activity as a long distance signaling response to salt stress in sunflower seedling cotyledons. *Nitric Oxide*. doi: 10.1016/j.niox.2016.01.003.

Ram, H., Kumar, A., Thomas, L., Dastager, S.G., Mawlankar, R., and Singh, V. P., (2015) *Myroides indicus* sp. nov. isolated from garden soil. *International Journal of Systematic and Evolutionary Microbiology*. 65: 4008–4012.

Mandal, S., Upadhyay, S., Singh, V.P., and Kapoor, R. (2015) Enhanced production of steviol glycosides in mycorrhizal plants: A concerted effect of arbuscular mycorrhizal symbiosis on transcription of biosynthetic genes. *Plant Physiology and Biochemistry* 89: 100-106.

Babbar, S.B., and Singh, D.S. 2016. Protocols for *In Vitro* Mass Multiplication and Analysis of Medicinally Important Phenolics of a Salep Orchid, *Satyrium nepalense* D.Don ("Salam Mishri"). In: Jain, S.M. (Ed.) *Protocols for In Vitro Cultures and Secondary Metabolite Analysis of Aromatic and Medicinal Plants*, Second Edition. *Methods in Molecular Biology* 1391: 1-11.

Singh, D.S., Nirwan, S., and Babbar, S.B., 2015. Micropropagation of *Anacyclus pyrethrum* and chemical profiling of the regenerated plants for pellitorine, the active principle. *Plant Cell, Tissue & Organ Culture* 122: 249-255.

Nautiyal, S., Schaldach, R., Raju, K., Kaechele, H., Pritchard, B. & Rao, K.S. 2016. *Climate Change Challenge (3C) and Social-Economic-Ecological Interface-Building*. Springer-Verlag, Berlin. 765pp.

Saxena, K.G. & Rao, K.S. 2016. *Soil Biodiversity: Inventory, Functions and Management*. Bishen Singh Mahendra Pal Singh, Dehradun. 476pp.

Chetri, S. K., Kapoor, H. & Agrawal, V. 2016. Marked enhancement of sennoside bioactive compounds through precursor feeding in *Cassia angustifolia* Vahl and cloning of isochorismate synthase gene involved in its biosynthesis. *Plant Cell Tissue Organ Cult.* 124: 431-446. (Springer Netherlands).

Nanda, R. & Agrawal, V. 2016. Elucidation of zinc and copper induced oxidative stress, DNA damage and activation of defence system during seed germination in *Cassia angustifolia* Vahl. *Environ. Exp. Bot.* 125: 31-41 (Elsevier Netherlands).

Rathore, P., Geeta, R. and Das, S. 2016 Microsynteny and phylogenetic analysis of tandemly organized miRNA families across five members of Brassicaceae reveals complex retention and loss history. *Plant Science*. 247: 35-48.

Jain, A. and Das, S. 2016 Synteny and comparative analysis of miRNA retention, conservation, and structure across Brassicaceae reveals lineage- and sub-genome-specific changes. *Funct. Integr. Genomics*. 16:253-268.

Pandey, A.K., Dwivedi, M.D. and Gholami, A. 2016. Reproductive biology data in plant systematics-and overview. *The Int. J. of Plant Reproductive Biology* 8(1), 65-74.

Khanduri, P., Sharma, R., Bhat, V., Tandon, R. 2016. Isolation, expression and evolution of *Fertilization Independent Endosperm* homologs in Podostemaceae. *J. Plant Research*, 129, 241-250.

Ambreen, H., Kumar, S., Murali, T.V., Joshi, G., Bali, S., Agarwal, M., Kumar, A., Jagannath, A. and Goel, S. 2015. Development of a novel set of genomic microsatellite markers in *Carthamus tinctorius* L. using next generation sequencing and assessment of their utility for diversity analysis and cross species transferability. *PLoS ONE* 10(8): e0135443.

Bhardwaj, A.R., Joshi, G., Kukreja, B., Malik, V., Arora P., Pandey R., R.N., Bankar, K.G., Katiyar-Agarwal, S., Goel, S., Jagannath, A., Kumar, A., Agarwal, M., 2015. Global insights into high temperature and drought stress regulated genes by RNA-Seq in economically important oilseed crop *Brassica juncea*. *BMC Plant Biol.*15 (1): 9.

Kashyap, P., Sehrawat, A., and Deswal, R. 2015. Nitric oxide modulates *Lycopersicon esculentum* C-repeat binding factor 1 (LeCBF1) transcriptionally as well as post-translationally by nitrosylation. *Plant Physiology and Biochemistry* 96, 115-123 DOI:10.1016/j.plaphy.2015.07.032.

Thakur, J., Madan, A., Dwevedi, M.D. and Uniyal, P.L. 2015. What drives orchids toward mycoheterotrophy? *The Journal of Orchid Society of India* 29: 55-60.

Khanduri, P., Tandon, R., Uniyal, P.L., Bhat, V., Pandey, A.K. 2015. Comparative morphology and molecular systematics of Indian Podostemaceae. *Plant Systematics and Evolution* 301, 861-882.

Sourabh, P., Thakur, J., Uniyal, P.L. and Pandey, A.K. 2015. Biology of *Lilium polyphyllum*-a threatened medicinal plant. *Medicinal Plants* 7(2): 158-165.

Baishya, R. & Barik, S.K. 2015. Ecosystem level carbon and net primary productivity of old-growth and regenerating humid tropical forest of North-Eastern India. *Int. Journal of Plant and Environment*. DOI No. : 10.18811/ijpen.v1i1.7117.

## **Research Projects**

UGC project “Salt stress induced modulation of reactive oxygen species and their scavenging mechanisms in sunflower seedlings” (2015-2017).

DBT project “Exploration of genome-wide polymorphism, imprintomes and methylomes to unfold the genetic, epigenetic and evolutionary mysteries of basal angiosperms with emphasis on *Nymphaea* L” for three years (2016 onwards).

UGC project “A Search For Molecular, Biochemical & Morphological (Phenotypic) Markers For Different Growth Stages Of *D.alata* Tuber and Their Relation With The Redox Status” (2014-2017).

DST-PURSE II, Structural, Functional, Developmental and Evolution of Plant Cuticular Waxes (2013-17).

DBT Project Preventing extinction and improving conservation status of threatened Plants through biotechnological tools (2012-2017).

DBT Project "Molecular analysis of the promoter elements associated with Brassica miRNA genes" Nov 2012-Oct 2015).

DST-SERB "Soil carbon sequestration in the Ridge forest Ecosystem of Delhi NCT" (2013- 2016).

DST-SERB "Marker Assisted Selection of Male and Female Plants of *Simmondsia chinensis* (Link) Schneider (Jojoba) – A multipurpose dioecious crop".(2013-2016)

DU-DST-PURSE Grant 2<sup>nd</sup> Phase "Dynamics of Soil Microbial Communities in Response to Projected Changing Temperatures due to Climate Change and Influence of Plants in Various Agro-climatic Regions". (2014-2018)

DST-PURSE Grant Phase II: "Genetic and genomic approaches for improvement of the oilseed crop, *Carthamus tinctorius* (Safflower)" (2014 – 2017).

DBT-Centre of Excellence Grant Phase II: PI in DBT project on "Transgenic approaches for resistance to mustard aphids", Satellite Project under 'Centre of Excellence on Genome Mapping and Molecular Breeding of Brassicas'. (2015 – 2020).

### **Conference Presentations**

25<sup>th</sup> Silver Jubilee Conference of IAAT and International Seminar on Advancements in Angiosperm Systematics and Conservation, Calicut, Kerala, November 20, 2015.

103<sup>rd</sup> session of Indian Science Congress held at Mysuru, Karnataka, Jan 5, 2016.

Bioassay guided isolation and elicitation of anti-malarial and anti-cancerous bioactive compounds from medicinal plants employing metabolic engineering in National Conference on Plant Science Research: Looking beyond 21<sup>st</sup> Century for Environmental & Agricultural Revolution, February 5-7, 2016, New Delhi, India.

6<sup>th</sup> World Congress on Biotechnology entitled "Biotechnological approaches for rapid elicitation of artemisinin in *Artemisia annua* L. employing biotic and abiotic stresses, its isolation and evaluation of bio-efficacy against cancer cell lines, malaria and dengue vectors" New Delhi, India, October 5-7, 2015.

Deciphering the control of apomixis in *Pennisetum*. XXIII International Grassland Congress November 20-24, 2015, Delhi NCR, India.

Identification of Male specific marker in *Hippophae rhamnoides* by ISSR based SCAR marker. Advancing Frontiers in Biotechnology for Sustainable Agriculture and Health (AFBSAH-2-16)" during 25-26th February, 2016, Allahabad.

Purification of Chitinases, the Dual Functioning Proteins from *Hippophae rhamnoides* a Cold Tolerant Himalayan Shrub and Testing its Efficacy for Cryopreservation of RBCs. International Conference on Low Temperature Science and Biotechnological Advances at NASC Complex, New Delhi, India, 27-30 April, 2015.

Extraction and Purification of dual functioning Antifreeze proteins in *Hippophae rhamnoides* Seedling, Berry and Leaf. The 7th Conference of the International Seabuckthorn Association (ISA 2015)" at NASC Complex, New Delhi, India, 24-26 November, 2015.

XXXVIII All India Conference of The Indian Botanical Society (2015), Department of Botany, Rajasthan University. October 26-28, 2015.

Nectar-disc development in *Thunbergia grandiflora* (Roxb. et Rottler) Roxb.(Acanthaceae) and its implications on pollination pp 24th International Congress on Sexual Plant Reproduction, Arizona, USA, 18-23 March, 2016.

37th Meeting of PTCA (I) and National Symposium on “Plant Biotechnology for Crop Improvement”, NBRI, Lucknow, February 25-27, 2016

### **Inter-Institutional Collaborations**

Technical University of Munich. Freising, Germany.

Collaborative project with Department of Biotechnology, North Eastern Hill University.

Collaborative project with Department of Botany, North Eastern Hill University.

Survey of North Indian Medicinal Plants for their larvicidal activity against malaria and filarial vectors. National Institute of Communicable Diseases, New Delhi.

Genetic engineering for raising transgenic plants for the production of artemisinin and also for the production of insulin. International Centre for Genetic Engineering and Biotechnology

### **Number of M. Phil./ Ph.D. Degrees Awarded**

Ph.D. 14

M.Phil. 08

### **Faculty Strength**

Permanent Faculty: 25

### **Other Significant Information**

Organized 1st Himalayan Conclave – 2015 during September 9-10, 2015 in collaboration with Institute of Bioresources and Sustainable Development (IBSD), Imphal and Himalayan Environmental Studies and Conservation Organization (HESCO), Dehradun.

Organized Professor Panchanan Maheshwari Memorial Lecture on November 09, 2015.

Organized Professor B.M. Johri Rolling Schield Paper Presentation contest during 2015.

Organized Special Lecture by Jolanta Slowick, University of Gottingen, Germany during March 01, 2016.

Organized National Conference on Plant Science Research: Looking beyond 21<sup>st</sup> Century for Environmental & Agricultural Revolution, February 5-7, 2016, New Delhi.

## CHEMISTRY

### Major Activities and Achievements

Established on 1922, the Department of Chemistry is one of the biggest departments in the University of Delhi. The Department runs M.Sc. and Ph.D. Courses. The Department has 42 faculty members at present, who work in diverse areas of chemistry, including inorganic, organic and physical chemistry. Some of the subareas in the above-mentioned disciplines include (i) bioinorganic chemistry, organometallic and main group chemistry, supramolecular chemistry, (ii) bioorganic chemistry, natural products, carbohydrate related chemistry, green chemistry, catalysis, and medicinal chemistry, (iii) theoretical studies including computational chemistry, both the experimental and theoretical aspects of electrochemical studies, molecular dynamics, protein and peptide chemistry, and chemical thermodynamics. Some interdisciplinary research works in the field of materials chemistry are also being pursued. Research grants were secured from funding agencies such as DST, DBT, CSIR and UGC. The DST has identified the chemistry department as one of leading research departments due to the department's extensive contributions to research.

### Honours/ Distinctions

Professor Monika Datta received Professor V. Pandu Ranga Rao Award for the oral presentation of paper entitled "Pristine and Modified Clay, Montmorillonite, for the removal of Indigo Carmine Dye from aqueous solution", in 52<sup>nd</sup> Annual Convention of Chemists 2015.

Professor G. Gopal Rao Centenary Young Scientist Award for the oral presentation of paper entitled "Clay-polymer composite film as seed coating material for the extended release of micronutrients into soil", 52<sup>nd</sup> Annual Convention of Chemists, JCERC University, Jaipur, December 28-30, 2015.

Professor Rama Kant was elected Fellow of the Indian Academy of Sciences (2015): FASc

Professor Rama Kant received CRSI Bronze Medal in recognition of contributions to research in chemistry (CRSI Awards 2015)

**Publications:** Total 290 (Selected 10 as follows)

Kundra, H., Datta M., (2015). Influence of ageing temperature and time on complete conversion of fly ash in to a framework aluminosilicate utilizing alkaline hydrothermal synthetic methodology. *International Journal of Applied, Physical and Bio-Chemistry Research*, 5 (3), 9-18.

Kundra, H., Datta M. (2015). Influence of curing temperature and time on complete conversion of fly ash in to a framework aluminosilicate utilizing alkaline hydrothermal synthetic methodology. *International Journal of Applied, Physical and Bio-Chemistry Research*, 5 (3), 19-32.

Sharma, D., Ojha, H., Pathak, M., Singh, B., Sharma, N., Singh, A., Kakkar, R. & Sharma, R. K. (2016) Spectroscopic and molecular modeling studies of binding mechanism of metformin with bovine serum albumin. *J. Mol. Struct.* 1118: 267-274.

Badhani, B. and Sharma, N. & Kakkar, R. (2015) Gallic acid: A versatile antioxidant with promising therapeutic and industrial applications. *RSC Adv.* 5(35): 27540-27557.

Parveen and R. Kant, (2016) Theory for Cyclic Staircase Voltammetry of Two Step Charge Transfer Mechanism at Rough Electrodes, *J. Phys. Chem. C*, 120, 4306-4321. DOI: 10.1021/acs.jpcc.6b00810.

Parveen and R. Kant, (2016) General Theory for Pulse Voltammetric Techniques on Rough and Finite Fractal Electrodes for Reversible Redox System with Unequal Diffusivities. *Electrochimica Acta*. 194, 283-291.

Singh, D. K., Nath, M. (2015). meso-Phenyl-triazole bridged porphyrin-coumarin dyads: Synthesis, characterization and photophysical properties. *Dyes and Pigments*, 121: 256-264.

Tiwari, R., Nath, M. (2015). Synthesis of 2-nitro-3-(pyrrol-1-yl)-5,10,15,20-tetraarylporphyrins via a Clauson-Kaas reaction and the study of their electronic properties. *New J. Chem.*, 39: 5500-5506.

Varshney, R.; Sethi, S.; Rangaswamy, S.; Tiwari, A. K.; Milton, M. D.; Kumaran, S., Mishra, A. K. (2016) Design, synthesis and relaxation studies of triazole linked gadolinium(III)-DO3A-BTbistriazaspirodecanone as a potential MRI contrast agent *New J. Chem.*, DOI: 10.1039/c5nj03220b.

Bishnoi, S.; Milton, M. D. (2015). Tunable phenothiazine hydrazones as colour displaying, ratiometric and reversible pH sensors. *Tetrahedron Lett*. 56: 6633-6638.

### Research Projects

Professor Monika Datta: UGC-sponsored project 'Clay Polymer Nanocomposite: A New Approach of Oral Administration for Extended Release of Drug' 36.36 Lacs (approx)

Professor Rama Kant: DST/SERB Project '3-D simulation of local electrochemical impedance spectroscopy and reconstruction of surface morphology from SEM micrographs'.

Professor Rama Kant: Applied Materials (India) sponsored project "Modeling of Solid State Batteries".

### Conferences Presentations: Total 20 (Selected 5 given below)

Seema and Datta, M., 2016. Montmorillonite-PLGA nanocomposites as novel drug delivery vehicle for oral administration of insulin. International Conference on Materials Science and Technology (ICMTech 2016) March 3, 2016 organised by University of Delhi, Delhi-110007, India.

Nadeem, U, and Datta, M., 2015. Bentonite-alginate microspheres for adsorptive removal of some heavy metals. 52<sup>nd</sup> Annual Convention of Chemists, JCERC University, Jaipur, December 28-30, 2015, India.

Badhani, B. and Kakkar, R. (2015) Poster: "Pharmacophore Modelling and Atom-Based 3D-QSAR Studies on Gallic Acid Derivatives as Potent Anti-Cancer Agents", 10<sup>th</sup> European Conference on Computational Chemistry organized by EuCheMS, Germany, August 31<sup>st</sup> – September 3<sup>rd</sup>, 2015

Kant, R. 2015, Does Electrode Disorder Matter?, Keynote Talk, Electrochem 2015, Durham University, 13-15 September, U.K.

Milton, M. D. and Bishnoi, S., 2016, Synthesis of Novel Dibromophenothiazine-5-oxide scaffolds: Potential Building Blocks for OLED Materials” Paper presented at the International Conference on Material Science and Technology (ICMTECH 2016), held from 1-4 March, 2016 at the University of Delhi, India.

**No. of Ph.D. Degrees Awarded**

Ph.D: 49

**Faculty Strength**

42 Permanent

9 Ad-hoc

**DR. B. R. AMBEDKAR CENTER FOR BIOMEDICAL RESEARCH**

**Major Activities and Achievements**

Dr. B. R. Ambedkar Center for Biomedical Research continued excelling in the year 2015-2016 also. Among in keeping with its tradition M.Sc. batch of students, passed out in 2015, majority of the students cleared UGC-CSIR, NET examination and joined various well reputed Institutions of the county for their Ph.D. including IGIB, NII, ICGB and the like.

ACBR also conducted the Summer Undergraduate Research Training programme wherein 21 students were admitted to carryout research in various laboratories of ACBR. Several Science Academy Summer Fellowship students also carried out research projects at ACBR. An educational trip for students of ACBR was organized from 16<sup>th</sup> October to 20<sup>th</sup> October 2015. Students visited the Indian Institute of Science Education and Research (IISER) Mohali and Institute of Himalayan Bioresource Technology (IHBT) Palampur.

**Outstanding Honours/Distinctions**

Honours	Name
2016-Elected as FNA(Fellow of the Indian National Science Academy)	Prof. Vani Brahmachari

**Research Projects**

Title	Principal Investigator	Sponsoring Organisation
Deciphering macrophage functions during human immunodeficiency virus and mycobacterium tuberculosis co-infection.	Prof. K. Natarajan	DBT
Deciphering the role of Neddylation dendritic cell activation during <i>Mycobacterium tuberculosis</i> infection by RNA interference.		DBT
Investigations into chemokine and chemokine receptors levels in macrophages following Mycobacterium tuberculosis antigenic challenge: role of calcium and Toll Like Receptors.		DU
Genome-wide mapping of interaction sites of hINO80,.....on the human genome and analysis of its effect on target gene regulation.; Rs. 56.25 lacs; 2013-2016	Prof. Vani Brahmachari	CSIR



Epigenetics in Health and Disease - (EpiHeD): Work package: Molecular basis of genomic imprinting in mealybugs (2012-17; Rs119.7 lacs) Network Project		CSIR
“Validation, Field Trial Scale-up and Commercialisation of Sensitive and Specific PCR based Diagnostic kit and Instruments for diagnosis of Chlamydia and Nisseria infection”	Prof. Daman Saluja	DBT-BIPP
Understanding the role of SIN3, A global transcription regulator in nongenotoxic stress mediated modulation of gene expression.		DST
R& D Grant	Dr. Manisha Tiwari	DU
The potential use of novel aryl and alkyl piperazine analogs for the treatment of Alzheimer’s disease: An in vivo and in vitro study		DST
Creation of Bioinformatics Infrastructure Facility (BIF)	Dr. Madhu Chopra	DBT
Effect of macromolecular and osmolytic crowders on protein structure and folding.	Dr. L.R. Singh	DST
Effect of multiple osmolytes on protein stability, structure and function: An insight to additivity, synergism or antagonism of osmolytes mixtures.		CSIR
Mechanism of allosteric regulation of a unique bifunctional antioxidant enzyme peroxyredoxin-6 on post translational modification		DBT

### Inter-institutional collaboration

Safdarjung Hospital, DSS Image Tech Pvt. Ltd, Vallabh bhai Patel Chest Institute (VPCI), University of Delhi by Prof. Daman Saluja.

International collaboration with With Prof. Dong Kee Jeong Laboratory of Animal Genetic Engineering and Stem Cell Biology, Department of Animal Biotechnology and Advance Next Generation Convergence, Faculty of Biotechnology, Jeju National University, Jeju-Do, Republic of Korea BY Dr. Manisha Tiwari.

### Publications

Total no. of publication in 2015-16 = **58**

Antony, C., Mehto, S., Tiwari, B.K., Singh, Y. & Natarajan, K. (2015). Regulation of L-type voltage gated calcium channel CACNA1S in macrophages upon *Mycobacterium tuberculosis* infection. *PLoS One* 10(4), e0124263.

Mehto, S., Antony, C., Khan, N., Arya, R., Selvakumar, A., Tiwari, B.K. Vashishta, M., Singh, Y., Jameel, S., & Natarajan, K. (2015). *Mycobacterium tuberculosis* and human Immunodeficiency virus type 1 cooperatively modulate macrophage apoptosis via Toll Like receptor 2 and calcium homeostasis. *PLoS One* 10(7), e0131767.

Vashishta, M., Khan, N., Mehto, S., Sehgal, D., & Natarajan, K. (2015). Pneumococcal surface protein A (PspA) regulates programmed death ligand 1 expression on dendritic cells in a Toll-Like receptor 2 and calcium dependent manner. *PLoS One* 10(7), e0133601.

Chadha, A., Mehto, S., Selvakumar, A., Vashsita, M., Kamble, S.K., Popli, S., Raman, R., Singh, Y., & Natarajan, K. (2015). Suppressive role of neddylation in dendritic cells during Mycobacterium tuberculosis infection. *Tuberculosis (Edin.)* 95, 599-607.

Pandey, S., Singh, S., Anang, V., Bhatt, A.V., Natarajan, K., & Dwarakanath, B.S. (2015). Pattern Recognition Receptors in Cancer Progression and Metastasis. *Cancer Growth and Metastasis* 8, 25-34.

The functional diversity of Drosophila Ino80 in development. Ghasemi M, Pawar H, Mishra RK, Brahmachari V (2015) *Mech. Dev.* 138, 113-121.

Sawney, S. Arora, R. Aggarwal, K. K and Saluja, D. (2015) Esculetin Downregulates the Expression of AML1-ETO and C-Kit in Kasumi-1 Cell Line by Decreasing Half-Life of mRNA, *J of Oncology* 8 781473. doi: 10.1155/2015/781473

Gupta S, Kumar P, Kaur H, Sharma N, Saluja D, Bharti AC, Das BC (2015). Selective participation of c-Jun with Fra-2/c-Fos promotes aggressive tumor phenotypes and poor prognosis in tongue cancer. *Sci. report.* 19;5:16811

Kadamb R, Mittal S, Bansal N, Saluja D (2015) Stress-mediated Sin3B activation leads to negative regulation of subset of p53 target genes *Biosci Rep* 25;35(4).

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Development of cyanopyridine-triazine hybrids as lead multi-target anti-Alzheimer's agents Mudasir Maqbool, Apra Manral, Ehteshaam Jameel, Jitendra Kumar, Vikas Saini, Ashutosh Shandilya, Manisha Tiwari\*, Nasimul Hoda\*, B.Jayaram *Bioorganic & Medicinal Chemistry* 2016 (IN PRESS) IF 2.95

DADS analogs ameliorated the cognitive impairments of Alzheimer-like rat model induced by scopolamine Apra Manral, Poonam Meena, Vikas Saini, . Fouzia Siraj, Shruti Shalini, Manisha Tiwari,\* *Neurotoxicity Research* 2016 (In Press) IF 3.538

Convolvulus pluricaulis as a Cognition Booster: Relevance to Alzheimer's disease Syed Waseem Bihaqi, Suhaib Ibrahim Alkhamaiseh, Manisha Tiwari *International Journal of Pharmaceutical Sciences and Drug Research* 2016, 8(2), 68-74

Polypharmacological drugs in the treatment of Epilepsy: The comprehensive review of marketed and new emerging molecules Shikha Kumari, Chandra Bhushan Mishra, Manisha Tiwari\* *Current Pharmaceutical Design* 2016 (in press) Impact factor 3.452

Synthesis, in vitro and in vivo anticancer activity of novel 1-(4-imino-1-substituted-1H-pyrazolo[3,4-d]pyrimidin-5(4H)-yl) urea derivatives Chandra Bhushan Mishra, Raj Kumar Mongre, Shikha Kumari, Dong Kee Jeong\*, Manisha Tiwari\* *RSC-Advances* 2016, 6, 24491 – 24500: Impact Factor 3.84

Design and Synthesis of some new 1-Phenyl-3/4-[4-(aryl/heteroaryl/alkyl-piperazine-1-yl)-phenyl]-ureas as potent Anticonvulsant and Antidepressant Agents Chandrabhushan Mishra, Shikha Kumari and Manisha Tiwari\* *Archives of Pharmacal Research* 2016 (in Press) Impactfactor 2.046

Design and synthesis of a novel class of carbonic anhydrase IX inhibitor 1-(3-(9-phenyl/4-fluorophenyl)-7-imino-3H-{1,2,3} triazolo[4,5d] pyrimidin 6(7H)yl) urea Shikha Kumari, Danish Idrees, Chandrabhushan Mishra, Amresh Prakash, Wahiduzzaman, Faizan Ahmad, Md. Imtaiyaz Hasan\* , Manisha Tiwari\* *Journal of Molecular graphics and Modelling* Volume 64, March 2016, Pages 101-109 IF 1.722

Pharmacological evaluation of novel 1-[4-(4-benzo[1,3] dioxol-5-ylmethyl-piperazin-1-yl)-phenyl]-3-phenyl-urea as potent anticonvulsant and antidepressant agent Shikha Kumari, Chandrabhushan Mishra, Manisha Tiwari\* *Pharmacological Reports* 68 (2016) 250-258 Impact factor 1.928 (Elsevier)

Multifunctional Novel Diallyl Disulfide (DADS) derivatives with  $\beta$ -Amyloid-reducing, Cholinergic, Antioxidant and Metal chelating properties for the Treatment of Alzheimer's Disease Apra Manral, Vikas Saini, Poonam Meena and Manisha Tiwari\* *Bioorganic and Medicinal Chemistry* Impact factor 2.95 Volume 23, Issue 19, 2015, Pages 6389-6403

Hyperhomocysteinemia: Impact on Neurodegenerative diseases Meenakshi Sharma, Manisha Tiwari and Rakesh Kumar Tiwari *Basic and Clinical Pharmacology and Toxicology* 117(5), 287-96, 2015 IF 2.124 (wiley)

Design, Synthesis and Pharmacological evaluation of N-[4-(4-(alkyl/aryl/heteroaryl)-piperazin-1-yl)-phenyl]-carbamate ethyl ester derivatives as novel anticonvulsant agents Shikha Kumari, Chandrabhushan Mishra and Manisha Tiwari\* *Bioorganic and Medicinal Chemistry Letters* 25 , 1092-1099, 2015 Impact Factor 2.33 (Elsevier)

Synthesis, biological evaluation and molecular docking study of novel piperidine and piperazine derivatives as multi-targeted agents to treat Alzheimer's disease Poonam Meena, Apra Manral, Manisha Khatri, Vishal Nemaish, Pratibha M. Luthra and Manisha Tiwari\* *Bioorganic and Medicinal Chemistry* 23, 1135-1148, 2015 Impact factor 2.95 (Elsevier)

Thiazole: A promising heterocycle for the development of potent CNS active agents (Review Article) Chandra Bhushan Mishra, Shikha Kumari and Manisha Tiwari\* *European Journal of Medicinal Chemistry* 92, 1-34, 2015 Impact factor 3.43 (Elsevier)

Protective effects of a Piperazine derivative [N-{4-[4-(2-methoxy phenyl)-piperazin-1-yl]-phenyl} Carbamic acid ethyl ester] against aluminium induced neurotoxicity: Insights from in silico and in vivo studies Poonam Meena, Apra Manral, Vikas Saini and Manisha Tiwari\* *Neurotoxicity Research* 27, 314-327, 2015 Impact Factor 3.54 (Springer)

Kumar, T., Yadav, M., Singh, L. R., (2016). Role of osmolytes in regulating immune system. *Curr Pharm Des.* (In press).

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Rahman S, Rehman MT, Singh LR, Warepam M, Ahmad F, Dar TA, Salt Potentiates Methylamine Counteraction System to Offset the Deleterious Effects of Urea on Protein Stability and Function, *PLoS One*, 2015, 10(3):e0119597.

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Mittal S, Chowhan RK, Singh LR. Macromolecular crowding: Macromolecules friend or foe. *Biochim Biophys Acta*. 2015 May 8. pii: S0304-4165(15)00127-0. doi: 10.1016/j.bbagen.2015.05.002 (Impact factor 3.829).

Sharma GS, Mittal S, Singh LR. Effect of Dextran 70 on the thermodynamic and structural properties of proteins. *Int J Biol Macromol*. 2015 Apr 29. pii: S0141-8130(15)00289-5. doi: 10.1016/j.ijbiomac.2015.04.051 (Impact factor 3.1).

Hasan, T., Ali, M., Saluja, D., Singh, L. R., (2015) pH might play a role in regulating the function of PAH domains by altering the structure and thermodynamic stability, *Biochemistry (Moscow)* (Impact factor-1.753)

### **Conferences organized /attended**

Organized: Frontiers in Biomedical Research-2015, Comprehending Genes@work: From Structural Biology to Drug Discovery, Oct 2015

Dr. Madhu Chopra-Convener and organizing Secretary 6<sup>th</sup> Workshop on Bioinformatics and Molecular Modeling in Drug Design, at ACBR, 21-23 January, 2016.

South Asian Biotechnology Conference, SAU, New Delhi (Feb 2015) by Prof. Vani Brahmachari

Chromatin Asia, JN Center, Bengaluru ( Nov. 2015) by Prof. Vani Brahmachari

MCB75: From Molecules to Organisms, IISc. Bangalore (Dec. 2015) by Prof. Prof. Vani Brahmachari

“Synergistic effect of HDAC inhibitor (Panobinostat) and Topoisomerase inhibitors on cervical cancer at Drug Discovery & therapy World congress, July 22-25, 2015, Boston, USA by Dr. Madhu Chopra

HDAC inhibitor and Topoisomerase inhibitors show synergistic effect on HeLa cells, Global cancer Summit, 18-20 November, 2015 at Indian Institute of Science, JN. Tata Auditorium, Bengaluru. by Dr. Madhu Chopra

“Annual meeting of Indian Biophysical Society-2016” held at IISc Bangalore by Dr. L.R. Singh

#### **Number of Ph.D. awarded**

No. of Students = 14

#### **Faculty Strength : 12**

10 (Regular)

02 (Adhoc)

#### **Other significant information**

One of Ph.D. students from Prof. Daman Saluja, Ms. Deepali Joon has been conferred Ranbaxy award 2015-16 for her work on development of LAMP based diagnostic assay of *Mycobacterium tuberculosis*.

## **ENVIRONMENTAL STUDIES**

### **Major Activities and Achievements**

The Department is engaged in teaching and research in the field of environmental studies. Each year, we admit 54 students to two post-graduate courses (M.Sc.- 31 & M.A.- 23) through an All India Entrance Test. Our students come from varied academic backgrounds straddling various disciplines. Our Department has some of the best teachers and the faculty members are engaged in frontline areas of research across basic ecological, environmental and applied sciences. We also undertake research in socially relevant areas connected to national development and contribute to the problem solving of issues arising from environmental degradation. The research themes are focused on novel contributions, both in fundamental and applied aspects of ecology and the environment. Our faculty members regularly publish their research findings in top-tier peer reviewed journals. We have published in Nature, Science and other high impact journals. The faculty members have also secured extramural research projects which are used in developing state-of-the art laboratory facilities and training young research scholars. Our faculty members are recognized world leaders in their fields who widely collaborate with International experts. Our teachers are regularly invited to share their novel research findings through delivering keynote and plenary lectures at National and International Institutions.

## Honours/Distinctions

Professor Maharaj K. Pandit was appointed Hrdy Fellow, Radcliffe Institute for Advanced Study, Harvard University, USA.

Professor Maharaj K. Pandit was awarded Exploratory Seminar Award by Radcliffe Institute for Advanced Study, Harvard University, USA.

Professor Maharaj K. Pandit was elected a Fellow of National Academy of Sciences (NASI), Allahabad, India.

Professor Maharaj K. Pandit was appointed Independent Director (Board of Directors) of THDC India Ltd. by Govt. of India

Professor Maharaj K. Pandit was appointed Member of the Special Committee for Interlinking of Rivers, Govt. of India

Professor Inderjit Singh was awarded Distinguished Ecologist Award by Ecological Society of America.

## Publications

Manish, K., Telwala, Y., Nautiyal, D.C. & Pandit, M.K. (2016). Climate change driven loss of the Himalayan alpine meadows: herbaceous endemics in peril from advancing shrublands *Modeling Earth Systems and Environment*, 2:92.10.1007/s40808-016-0163-1.

Bhatt, J.P., Manish, K., Mehtra, R., Pandit, M.K. (2016). Assessing potential conservation and restoration areas of freshwater fish fauna in the Indian river basins. *Environmental Management* 57: 1098-1111.

Jain, M., Dawa, D., Mehta, R., Dimri, A.P., & Pandit, M.K. (2016). Monitoring land use change and its drivers in Delhi, India using multi-temporal satellite data. *Modelling Earth Systems and Environment*. 2:1-14.

Bhatt, J.P., & Pandit, M.K. (2015). Endangered Golden Mahseer *Tor putitora* Hamilton: A review of natural history. *Reviews in Fish Biology & Fisheries* 26: 25-38.

Nyamwanza, A., Kayhan, A.K., Pandit, M.K., Haque, A., Riedy, C., Doherty-Bigara, J., & Dingman, E. (2015). The big question: Climate's biggest losers who has the most to lose from climate change in your country? *World Policy Journal* 32: 3-7.

Shabnam, N., Sharmila, P. Sharma, A., Strasser, R.J., Govindjee and Pardha-Saradhi, P. (2015). Mitochondrial electron transport protects floating leaves of long leaf pondweed (*Potamogeton nodosus* Poir) against photoinhibition: comparison with submerged leaves. *Photosynth, Res.* DOI 10.1007/s11120-014-0051-3.

Van Kleunen, M., Dawson, W. Inderjit. & Pysek, P. (2015). Global exchange and accumulation of non-native plants. *Nature* 525:100-103.

Inderjit. (2015). Introduction to the special issue: the role of soil microbial-driven below ground processes in mediating plant invasions. *AoB Plants* 7:plv052.

Driscoll, D.A., Barney, J.N., Hulme, P.E., Inderjit, Martin, T.G., Pauchard, A. ....Catfor, J.A., (2015). Reply to Proenca et al: Sown biodiverse pastures are not a universal solution to invasion risk. *PNAS* 112:E1696.

Inderjit and Cahill J.F. (2015). Linkages of plant-soil feedbacks and underlying invasion mechanisms. *AoB Plants*, doi:1093/aobpla/plv022.

Urfi, A.J. (2015). Foraging ecology and conservation of waders along coast of India: Need for detailed studies. *Wader Study* 122(2): 153–159. doi: 10.18194/ws.00013.

Urfi, A.J. & Tiwary, N. K. (2015). Does *Prosopis juliflora* negatively impact upon the nesting success of heronry birds? A critique of a report in *Current Science*. *Curr Sci.*108: 1973- 1974.

Sharma, M., Mishra, V., Rau, N. & Sharma, R. S. (2016). Increased iron-stress resilience of maize through inoculation of siderophore-producing *Arthrobacter globiformis* from mine. *Journal of Basic Microbiology* 56:719-735. doi:10.1002/jobm.20150045.

S. S. Meena, R.S. Sharma, P. Gupta, S. Karmakar, K. K. Aggarwal (2016). Isolation and identification of *Bacillus megaterium* YB3 from an effluent contaminated site efficiently degrades pyrene. *Journal of Basic Microbiology* 56: 369–378.

D. Rawat, V. Mishra, R. S. Sharma (2016). Detoxification of azo dyes in the context of environmental processes. *Chemosphere* 155: 591 – 605.

R. S. Sharma, Swagata Karmakar & Vandana Mishra. (2016). Environmental toxicants and reproductive health - an environmental perspective. *Indian Society for the Study of Reproduction and Fertility* 18:78-81.

Saxena, P. and Ghosh, C. (2015). Seasonal Variation of Isoprene emissions from tropical road side plant species and their possible role in deteriorating air quality, *Environmental Skeptics and Critics*. 4: 67-80.

Sharma, P., Kumar, S., Garg, A. & Ghosh, C. (2015). Analyzing the effect of atmospheric trace elements on selected plant species, *Environmental Earth Sciences*, DOI 10.1007/s12665-015-4452-1.

Garg, A., Saxena, P. & Ghosh, C. 2015. Evaluation of Tolerance and Sensitivity of Selected Plant Species with Special Reference To Gasoline Exhaust Pollution. *International Journal of Scientific & Technology Research*, 4.199-207.

Goyal, N. & Sharma, G.P. (2015). *Lantana camara* L. (sensulato): an enigmatic complex, *NeoBiota* 25. 15-26.

Sunny, A., Diwakar, S. & Sharma, GP. (2015). Native insects and invasive plants encounters. *Arthropod-Plant Interactions*, 1-9.

Mishra, V., Mishra, R., Sharma, R.S. (2015). Ribosome Inactivating Protein: A potential molecule for the development of multi-stress tolerant transgenic plants. *Biotechnological Applications for Environmental Protection*, Springer (in press).

## Research Projects

Prof. Inderjit Singh, project funded by Department of Biotechnology, Govt. of India, entitled “Invasion ecology of *Prosopis juliflora* in contexts of biodiversity and conservation”.

Prof. R.S. Sharma / Dr. Vandana Mishra , project funded by Department of Science and Technology, New Delhi, entitled “Diversity in bacteria at nutrient stressed site: Role of bacteriophages”.

Prof. R.S. Sharma, project funded by UGC-DU, entitled “Role of phage-bacterium....mine”.

Dr. Chirashree Ghosh, project funded by Ministry of Environment & Forests (MoEF), entitled “Impact of Environmental Bioaerosol Pollution on Human Health: A “case-control study” for Exacerbation of COPD in North Indian Population”.

Dr. Chirashree Ghosh, project funded by Ministry of Earth Sciences, Govt. of India, entitled “System of air quality forecasting and research (safari) programme of IITM, Pune”.

Dr. Vandana Mishra, project funded by University Grants Commission, DU, entitled “Prevalence and ecological significance of polyphosphate.....mine”.

Dr. Vandana Mishra, project funded by Department of Science and Technology, New Delhi, entitled “Functional and Taxonomic Diversity Among Plant Growth Promoting Rhizobacteria ..... Fly Ash Environment”.

Dr. Gyan Prakash Sharma, Dr. Swati Diwakar, project funded by Department of Science and Technology, New Delhi, entitled “Insect herbivores on an invasive plant (*Hyptis suaveolens*): A case of host shift, ecological fitting or an evolutionary trap?”.

Dr. Gyan Prakash Sharma, project funded by Department of Science and Technology, New Delhi, entitled “Traits that matter...Indian sub-continent”.

Dr. Swati Diwakar, project funded by Department of Science and Technology, Govt. of India, entitled “Weta in India: Acoustic Communication, Systematics and Behavioral ecology”.

### **Conferences Presentations**

Maharaj K. Pandit. Seminar Leader. Looking beyond Disciplinary Silos: Understanding Complex Relationships between Himalayan Floral Evolution and Earth Surface Processes, Radcliffe Institute, Harvard University, USA, August 2016.

Inderjit Singh. Third Asian Allelopathy Conference, Fuzhou, China, Oct 30 to Nov 02, 2015.

Inderjit Singh. Invited talk at the University ofPittsburg, USA, June 2015.

Second HIMAP, IIMOD workshop focused on thematic area Drivers of Change, Thimpu, Bhutan, Feb 04-06, 2015.

Pandit, Maharaj K. Let a thousand Gentians bloom. Apr 08 2016. Radcliffe Institute for Advanced Study, Harvard University, Harvard, USA.

Pandit, Maharaj K. 2014. Databases and invasion research: an ecogenomic perspective. GBIF supporting research for sustainable development. In the GBIF Public Symposium, September 17<sup>th</sup>, 2014. India Habitat Centre, New Delhi, India.

V Mishra, S Malhotra, A Juneja, S Karmakar, RS Sharma (2015). Variation in nitrogen-fixing bacteria in different plant species atdifferent stages of vegetation development. In: Proceedings of 56<sup>th</sup> Annual Conference of



Association of Microbiologists of India (AMI-2015) & International Symposium on “Emerging Discoveries in Microbiology” Dec 7-10, 2015, JNU, New Delhi, pp. AMP97.

R S Sharma, S Karmakar, R Bidhuri, S Malhotra, R Singh, V Mishra (2015). Prevalence of polyphosphate accumulating bacteria in degraded ecosystems. In: Proceedings of 56<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI-2015) & International Symposium on “Emerging Discoveries in Microbiology” Dec 7-10, 2015, JNU, New Delhi, pp. EMP123.

D Rawat, RS Sharma, V Mishra (2015). Toxicity assessment of microbe-mediated degradation of Acid Orange 7 dye. In: 1<sup>st</sup> International Conference on Trends in Cell and Molecular Biology (TCMB), Birla Institute of Technology and Science (BITS) Pilani, Goa, Dec 19–21, 2015.

D Rawat, S Sharma, R S Sharma, V Mishra (2015). Proteomic analysis of halophilic bacterium efficient in degrading Acid Orange 7 Dye. 7<sup>th</sup> Annual Meeting of Proteomics Society of India (PSI) “Biochromatography, Molecular Recognition and Proteomics” Vellore Institute of Technology (VIT), Vellore, Tamil Nadu, Dec 3–6, 2015.

### **Inter-Institutional Collaboration**

Prof. Maharaj K. Pandit worked in collaboration with Prof. Andrew Knoll, Harvard University, USA on project entitled “Earth system processes & evolutionary divergence of the Himalayan flora”.

Prof. Maharaj K. Pandit worked in collaboration with Prof. Lian Pin Koh , University of Adelaide, Australia on project entitled “Diversity and Distribution of Himalayan Endemic Plants”.

Prof. Maharaj K. Pandit worked in collaboration with Radcliffe Institute for Advance Study , Harvard University, USA on project entitled “Life in Himalaya”.

Prof. P. Pardha Saradhi worked in collaboration with Prof. Govindjee, Professor Emeritus, Biochemistry, Biophysics and PlantBiology, UIUC, 265 Morrill Hall, 505 South Goodwin Av, Urbana, IL61801-3707, USA on project entitled “Investigations on photosynthesis and nanobiotechnology”.

Prof. P. Pardha Saradhi worked in collaboration with Prof. Reto J. Strasser, Bioenergetics Laboratory, University of Geneva, 1254 Jussy/Geneva, Switzerland on project entitled “Investigations on photosynthesis and nanobiotechnology”.

### **No. of Ph.D. Degrees Awarded**

Ph.D. 3

### **Faculty Strength**

Permanent: 11

## **GEOLOGY**

### **Major Activities and Achievements**

Prof. J. P. Shrivastava worked on the paleomagnetic and magnetostratigraphic evidences to establish the tectono-magmatic setting of lava packages in the Mandla lobe of the eastern Deccan volcanic province, India. Prof. C. S. Dubey worked on tectonic studies and crustal shortening of the eastern Arunachal Himalayas. Prof. GVR Prasad

described testudoid and crocoid eggshells from the Upper Cretaceous Deccan Intertrappean Beds of Central India, and Cricetid rodents from Lower Shiwaliks of Jammu. Prof. A. Chattopadhyay has worked on the radiometric measurement of age of intrusive granites of Gavilgarh-Tan Shear Zone, central India, and on morphotectonic studies of Satpura Mountains. Prof. N.C.Pant, carried out metamorphic studies of mid-crustal rocks from Arunachal Himalaya, and worked on the clay mineralogy of oceanic sediments from Antarctica. Prof. P.P.Chakraborty established the controls of sedimentation in Proterozoic basins with special reference to Bijawar and Gwalior basins. He also worked on the geology, geochemistry and evaluation of Total Organic Carbon potential for the argillaceous rocks of Vindhyan and Chhattisgarh basins. Prof. Pankaj Srivastava worked on pedogenic processes of red ferruginous soils of India. He also worked out the pedogenic response of soils of the Indo-Gangetic Plains to Holocene landscape stability, climatic variability and anthropogenic activity. Dr. Vimal Singh estimated the actual length of the Ganga and other Himalayan rivers. He also published comments on the critical zones of India. Dr. A. Saikia worked out the geochemical constraints on the evolution of mafic and felsic rocks in the Bathani volcanic and volcano-sedimentary sequence of Chhotanagpur Granite Gneiss Complex. She also worked on the elasticity of hydrous phases in oceanic slab material. Dr. P. Kumar worked on the closure of passive margin sag-basins in western Kutch, India through Sequence Stratigraphic Analysis.

### **Honours/Distinctions**

Prof. GVR Prasad Awarded J. C. Bose National Fellowship (2016)

Prof. G.V.R. Prasad is the Chairman, Expert Committee, DST Fast Track Scheme for Young Scientists (2015-2018)

Prof. G.V.R. Prasad served as Chairman, Subject Expert Committee in Earth & Atmospheric Sciences for Swarna Jayanti Fellowships (2015).

Prof. N. C. Pant received British Council Innovation Award in the form of ICECAP-2 project (2015-2017)

Prof. A. Chattopadhyay serving as an expert member of State Expert Appraisal Committee of Ministry of Environment, Govt. of Delhi since June 2015.

Prof. C. S. Dubey serving as an expert member, National Geospatial Policy - DST consultative committee 2016.

### **Publications**

Banerjee, S., Modal, S., Chakraborty, P.P. and Meena, S.S., (2015) Distinctive compositional characteristics and evolutionary trend of Precambrian glauconite: Example from Bhalukona Formation, Chhattisgarh basin, India. *Precambrian Research* v. 271, p.33-48.

Bhattacharjee, D., Jain, V., Chattopadhyay, A., Biswas, R. H., Singhvi, A. K. (2016) Geomorphic evidence and chronology of multiple neotectonic events in a cratonic area: results from Gavilgarh Fault Zone, central India. *Tectonophysics*, (Accepted paper: In Press).

Chakraborty, P.P., Saha, S. and Das, P., (2015). Geology of Mesoproterozoic Chhattisgarh basin, central India: current status and future goals. *Geological Society of London Memoir No. 43 on 'Precambrian basins of India: Stratigraphic and Tectonic context'*. Eriksson, P.G and Mazumdar, R. (Eds.) p. 185-206.

Chakraborty, P.P., Pant, N.C., Paul, P.P. (2015) Controls of sedimentation in Paleoproterozoic basins- A case study from the Gwalior and Bijawar basins, central India, Accepted for publication in Spl. Publication, Geol. Soc. London Memoirs, 43, 67–83, <http://dx.doi.org/10.1144/M43.5>.

Chattopadhyay, A., Das, K., Hayasaka, Y., Sarkar, A. (2015) Syn- and post-tectonic granite plutonism in the Sausar Fold Belt, central India: Age constraints and tectonic implications. *Journal of Asian Earth Sciences* 107, 110-121.

Chattopadhyay, A. (2015) Discussion on: “Carbon and oxygen isotope systematic of a Paleoproterozoic cap-carbonate sequence from the Sausar Group, central India by S. Mohanty, A. Barik, S. Sarangi and A. Sarkar” *Palaeogeography, Palaeoclimatology, Palaeoecology* 433, 156-157.

Das, K., Chakraborty, P.P., Hayasaka, Y., Kayama M., Saha S. and Kimura K. (2015) ~1450 Ma regional felsic volcanism at the fringe of East Indian craton: Constraints from geochronology and geochemistry of tuff beds from detached sedimentary basins. *Geological Society of London Memoir No. 43 on 'Precambrian basins of India: Stratigraphic and Tectonic context'*. p. 207-222.

Devrani, R., Singh, V., Mudd, S. M., Sinclair, D. (2015), Prediction of flash flood hazard impact from Himalayan River profiles, *Geophys. Res. Lett.*, 42, 5888 – 5894, doi:10.1002/2015GL063784.

Duncan, R. A., Shrivastava, J.P., Kashyap, M. (2015). Post-K/PB younger <sup>40</sup>Ar–<sup>39</sup>Ar ages of the Mandla lavas: Implications for the duration of the Deccan volcanism. *Lithos*, v. 224–225, pp. 214–224.

Khan, A. A., Pant, N.C., Goswami, A., Lal, R., Joshi, R. (2015) Critical evaluation and assessment of average annual precipitation in the Indus, the Ganges and the Brahmaputra basins, Northern India, in R. Joshi et al. (eds.), *Dynamics of Climate Change and Water Resources of Northwestern Himalaya*, Society of Earth Scientists Series, 67-84, DOI 10.1007/978-3-319-13743-8\_7, © Springer International Publishing Switzerland.

Mehdi, S.M., Kumar, S., Pant, N.C. (2015) Characterization of metamorphic conditions in the Lalsot-Bayana sub basin of the North Delhi Fold Belt (NDFB)- implications for its status within the Delhi Fold Belt, *Jour. Geol. Soc. Ind.*, 85, 397-410.

Ningthoujam, P.S., Dubey, C.S., Lolee, L.K., Shukla, D.P., Naorem, S.S., Singh, S.K., (2015) Tectonic studies and crustal shortening across Easternmost Arunachal Himalaya *Journal of Asian Earth Sciences* 111, 339-349 <http://dx.doi.org/10.1016/j.jseaes.2015.07.003>.

Parmar, V. , Prasad, G.V.R. (2015) Cricetid rodents from the Lower Siwalik Subgroup of Jammu, India: Biochronological Significance. *Palaeoworld* 24: 324-335 (Nanjing, China).

Pal, S., Shrivastava, J.P., Mukhopadhyay, S.K. (2015). Mineral Chemistry of Clays Associated with the Late Cretaceous-Early Palaeogene Succession of the Um-Sohryngkew River Section of Meghalaya, India: Palaeoenvironmental Inferences and K/Pg Transition. *Journal Geological Society of India*, v. 86, No. 6, pp.631-647.

Pal, S., Shrivastava, J.P., Mukhopadhyay, S. K. (2015). Physils and organic matter-base palaeoenvironmental records of the K/Pg boundary transition from the late Cretaceous-early Palaeogene succession of the Um-Sohryngkew River section of Meghalaya, India. *Chemie der Erde*, v. 75, pp.445-463.

Pal, S., Shrivastava, J.P., Mukhopadhyay, S.K. (2015) PAH excursions and K/Pg transition in the late Cretaceous-early Paleogene succession of the Um-Sohryngkew river section, Meghalaya. *Current Science*, Current Science, v. 109, No. 6, 1140-1150.

Pant, N.C., Kumar, S., Pandey, M., Bajaj, A.K., Kundu, A., Joshi, S., Shimyaphy, R.V.S. (2015) New insights on the genesis and controls of mineralization in Khetri Copper Belt and adjacent low-grade Cu mineralization, northwest Indian shield, In: P.K. Golani (ed.) *Recent Developments in Metallogeny and Mineral Exploration in Rajasthan*. Geological Survey of India Special Publication, 101, 109-128.

Prasad, G.V.R., Sharma, A., Verma, O., Khosla, A., Singh, L.R. & Priyadarshini, R.K. Testudoid and crocoid eggshells from the Upper Cretaceous Deccan Intertrappean Beds of Central India. *C.R. Palevol*.14: 513-526 (Paris).

Rani, N., Shrivastava, J. P., Bajpai, R.K. (2015). Natural glass from Deccan volcanic province: an analogue for radioactive waste form. *International Journal of Earth Science (Geol Rundsch)* DOI 10.1007/s00531-015-1244-5.

Rosa, A. D., Sanchez-Valle, C. Jingyun Wang, Ashima Saikia (2015). Elasticity of superhydrous phase B, seismic anomalies in cold slabs and implications for deep water transport. *Physics of Earth and Planetary Interiors*, 243:30 JUNE .

Sarkar A., Ali S., Kumar S., Shekhar S., Rao S.V.N. (2016: In press) *Groundwater environment in Delhi, India, Groundwater Environment in Asian Cities*, Ed. S Shrestha; V Pandey; B R Shivakoti; S Thatikonda, Imprint: Butterworth-Heinemann; Elsevier Publications. (<http://store.elsevier.com/Groundwater-Environment-in-Asian-Cities/isbn-9780128031667/>).

Singh, V. (2015) Commentary on The Indian Critical Zone – A case for priority studies. *Current Science*, vol. 108 (6); 1045-1046.

Srivastava, P., Aruche, K. M., Arya, A., Pal, D. K., Singh, L. P. (2015). A micromorphological record of contemporary and relict pedogenic processes in soils of the Indo-Gangetic Plains: Implications for mineral weathering, provenance, and climatic changes. *Earth Surface Processes and Landforms*. (DOI: 10.1002/esp.3862). (John Wiley & Sons Ltd.Publication).

Srivastava, P., Pal, D. K., Aruche, K M., Wani, S.P., Sahrawat, K. L. (2015). Soils of the Indo-Gangetic Plains: A pedogenic response to landscape stability, climatic variability and anthropogenic activity during the Holocene. *Earth Science Reviews* 140:54-71; DOI 10.1016/j.earscirev.2014.10.010). (Elsevier).

Srivastava, R., Ramesh, R., Gandhi, Jani, N. R.A., Singh, A. K. (2015) Monsoon onset signal in the stable oxygen and hydrogen isotope ratios of monsoon vapor. *Atmospheric Environment*. 108.p. 117-124.

Tiwari, M., Singh, A. K., Sinha, D. K. (2015) *Stable Isotopes: Tools for understanding past climatic conditions and their applications in Chemostratigraphy*. Chemostratigraphy Book: edited by RAMKUMAR-9780124199682, Chapter: 03, Elsevier Inc. 2015. <http://dx.doi.org/10.1016/B978-0-12-419968-2.00003-0> 65,

### **Research Projects**

Prof. P. Srivastava: MOES project entitled ‘Paleopedological ..... Siwalik succession’ (DU-KU-WIHG collaboration: Project approved, but funding has been delayed) 2015-18: 92.00 lakhs.

Prof. G.V.R.Prasad: J.C.Bose National Fellowship Project (2nd term) from DST (2016-18): 68.00 Lakhs.

Prof. J.P. Shrivastava: DST project entitled 'CO<sub>2</sub> sequestration studies on volcano-sedimentary succession of the eastern Deccan volcanic province' 2014-17: 57 Lakhs.

Prof. P. P. Chakraborty: DST project entitled 'Geology, geochemistry and total organic carbon evaluation for the argillaceous interval for the Proterozoic Vindhyan and Chhattisgarh Supergroup: 45 Lakhs.

Prof. A. Chattopadhyay: SERB project entitled 'GIS-based digital mapping of natural deformational structures: development of methodology and application to structurally controlled ore deposits' (2015-2018): 37 Lakhs.

### **Conference Presentations**

12th International Symposium on "Mesozoic Terrestrial Ecosystems" & IIIrd international Symposium of IGCP Project 608 held at Shenyang, China from 16-20 August 2015.

XII International Symposium on Antarctic Earth Science held at Goa from 13-17 July, 2015.

30th Himalayan-Karakoram-Tibet Workshop at Wadia Institute of Himalayan Geology, Dehradun, India, during October 6-8, 2015 (Dr. V. Singh presented paper).

National Workshop on Water Conservation and Pollution, Organized by Indian National Committee of International Association of Hydrogeologists and Manav Rachna International University, 19-12-2015 at Faridabad, Haryana, India (Dr. S. Shekhar contributed paper).

Sedimentary responses to forced regression across Subathu- Dagshai boundary in NW Himalayan foreland. National Conference of Paleogene of Indian subcontinent. Lucknow, April 23-24th 2015 (Prof. P. P. Chakraborty presented paper).

Evidence of highest bathymetry in Cenozoic successions of Kutch through planktonic foraminifera (*Cassigerinella* sp.) during Early Miocene, western Kutch, India. 3rd NECLIME Asia Meeting, BSIP Lucknow (Dr. P. Kumar presented paper).

#### *Invited Talks:*

J. P. Shrivastava delivered invited Lecture on "Deccan Volcanism" in the High Definition Studio of Electronic Media Production Centre of IGNOU (Gyan Darshan Programme), School of Sciences on 29<sup>th</sup> October, 2015.

J. P. Shrivastava delivered invited talk on "Stratigraphy, Age and Petrogenesis of Basalts from Mandala Lobe of the Eastern Deccan Volcanic Geochemical Flow Province, India" in Foundation Day National Seminar on Geo-potential of Central India, held in the Department of Applied Geology, Dr. Harisingh Gour Central University, Sagar from 5-6 August, 2015.

Prof. A. Chattopadhyay delivered talks and imparted field training to officers of Geological Survey of India at GSI Training center, Zawar in November 2015.

### **Inter-Institutional Collaboration**

Kurukshetra University and Wadia Institute of Himalayan Geology, Dehradun.  
Geological Survey of India, Faridabad

Jadavpur University, Kolkata  
IIT, Kharagpur  
IIT, Kanpur  
JNU, New Delhi  
IIT, Roorkee  
NGRI, Hyderabad  
University of Edinburgh, Scotland, UK, Oregon State University, Corvallis, USA  
Hiroshima University, Japan  
South Central University, Hunan, China

### **M. Phil./ Ph.D. Degrees Awarded**

Ph.D. 06  
M. Phil. 10

### **Faculty Strength**

Permanent: 16  
DST-Inpire faculty: 01  
Ad-hoc faculty members: 04

### **Other Significant Information**

The Department of Geology is a UGC Centre of Advanced Study (CAS-II stage completed).

## **PHYSICS AND ASTROPHYSICS**

### **Major Activities and Achievements**

The Department continued to ensure high standards in teaching and research. Following the success of the Summer Programme in 2014, the Department organized the Summer Programme 2015 for undergraduate students. This programme included pedagogical lectures, hands-on laboratory work and computer based sessions. Exposure lectures and visits to research laboratories also provided participants glimpses and highlights of research conducted in the Department. Students gave extremely positive feedback to this initiative. The Department organized several International and National conferences during this year. In March 2016 the annual Visitors' Programme was organized, in which several distinguished speakers from different institutions gave excellent talks. Regularly held Colloquia by eminent speakers were well received by our postgraduate and Ph.D. students. The year saw a large number of talks by overseas visitors. Our Department is proud to have two faculty members who are Fellows of all three National Science Academies.

### **Honours/Distinction**

Member Scientific Advisory Committee, Inter-University Acceleration Centre (IUAC), Delhi (Vinay Gupta).

Member of Indo-Japan Science council appointed by DST India.(H. P. Singh).

Visiting Professorship at Durham University, UK.(Brajesh Choudhary).

### **Publications**

(Total number: 304- selected 16 papers as under)

Vardan, K., Kumar, A., Arun Kumar, Ahuja, S., Bhardwaj, A., Choudhary, B.C., Kumar, A., Malhotra, S., Naimuddin, M., Ranjan, K. and Sharma, V. (2015) Study of vector boson scattering and search for new physics in events with two same-sign leptons and two jets Phys.Rev.Lett. 114 (2015) 5, 051801.

Rani, N., Jain, D., Mahajan, S., Mukherjee, A. and Pires, N. (2015) Transition Redshift: New constraints from parametric and nonparametric methods. J. Cosm. Astro. Phys.12, 045

Kumar, A., Gaur, A., Hasbuddin, M. and Naimuddin, M. (2015) RPC detector characteristics and performance for INO-ICAL experiment, JINST, 11 C03034.

Garg, R., Kumar, S., Saxena, M., Goyal, S., Siwal, D., Kalkal, S., Verma, S., Singh, R., Pancholi, S.C., Palit, R., Choudhury, D., Ghugre, S.ZS., Mukherjee, G., Kumar, R., Singh, R. P., Muralithar, S., Bhowmik, R. K., Mandal, S. (2015) Negative-parity high-spin states and a possible magnetic rotation in  $^{135}\text{Pr}$ , Phys. Rev. C 92, 054325.

Ngeow, C. C., Kanbur S. M., Bhardwaj, A., Singh, H. P. (2015) Period- Luminosity relations derived from OGLE-III fundamental mode Cepheids II: The Small Magellanic Cloud Cepheids. The Astrophysical Journal 808 (1) 67.

Sharma, K., Prugniel, P., Singh, H. P. (2016) New atmospheric parameters and spectral interpolator for the MILES cool stars. Astronomy & Astrophysics 585, A64.

Anand, S., Choudhury, D., Sen, A. A., Sengupta, S. (2015) A Geometric Approach to Modulus Stabilization, , Phys. Rev. D 92 026008.

Thomas, M. A., Choudhury, D. (2015) Bulk gauge and matter fields in nested warping: I. the formalism, J. High Energy Phys. 1509 202.

Nongjai, R., Khan, S., Ahmed, H., Khan, I., Annapoorni, S., Gautam, S., Lin, H.J., Chang, F-H, Chae, K.H., Asokan, K. (2015) Modification of magnetic anisotropy induced by swift heavy ion irradiation in cobalt ferrite thin films. J. Mag. Mag. Mater., 394, 432.

Sharma, S. K., Gupta, V., Tandon, R. P., Sachdev, V. K. (2016) Synergic effect of graphene and MWCNT fillers on electromagnetic shielding properties of grapheme – MWCNT/ABS nanocomposites, RSC Advances 6, 18257.

Kaur, G., Paliwal, A., Tomar, M., Gupta, V. (2016) Detection of Neisseria meningitidis using surface plasmon resonance based DNA biosensor, Biosen.Bioelectron., 78, 106.

Khokkar, A., Thakur, O. P., Goyal, P. K., Shukla, A. A. K., Sreenivas, K. (2015). Influence of La distribution on dielectric and ferroelectric properties of  $\text{BaBi}_{4-x}\text{La}_x\text{Ti}_4\text{O}_{15}$  ceramics, Materials Chemistry and Physics, 152, 13-25.

Murthy, J. K., Chandrasekhar, K. D., Murugavel, S. , Venimadhava, A. (2015) Investigation of the intrinsic magnetodielectric effect in  $\text{La}_2\text{CoMnO}_6$ : role of magnetic disorder, J. Mater. Chem. C, 3, 836-843.

Gupta, M. K., Kim, S-W, Kumar, B. (2016) Flexible High Performance Lead-Free  $\text{Na}_{0.47}\text{K}_{0.47}\text{Li}_{0.06}\text{NbO}_3$  Microcubes-Structures Based Piezoelectric Energy Harvester, ACS Appl. Mater. Interfaces, 8, 1766.

Kumar, P., Saxena, N., Dewan, S., Singh, F., Gupta, V. (2016) Giant UV-sensitivity in ion beam irradiated nanocrystalline CdS thin films, RSC Advances, 6, 3642.

Chaudhary, V., Kaur, A. (2015) Enhanced room temperature sulphur dioxide sensing behaviour of in-situ polymerized polyaniline-tungsten oxide nanocomposite possessing honeycomb morphology, RSC Advances 5, 73535.

### **Research Projects**

Binay Kumar: DRDO-funded project on Flux growth of  $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$  (PMNT) single crystals for piezoelectric and pyroelectric applications (2015-18): Rs. 85 Lakhs.

S. Murugavel: UGC-DAE project on Microstructure of Phase change memory materials (2014-17): 14.76 lakhs

S. Murugavel: DST project on Transport and dynamics of alkali ions in solid electrolytes with disordered structure (2014-17) 51.83 Lakhs.

S. Murugavel CSIR project: Investigations on nano structured Olivine phosphate cathode material for advanced energy storage applications (2014-17): 56.40 Lakhs.

Shyama Rath International Atomic Energy Agency, Vienna-sponsored project on Utilization of Ion Accelerators for Studying and Modelling of Radiation Induced Defects in Semiconductors and Insulators: Euro 5000/-.

Kirti Ranjan DST Project on Compact Muon Solenoid (CMS) Upgrade, Operation and Utilization (2014-2019): 9.99 Cr.

Kirti Ranjan DST Project on Updating and Operation of Regional WLCG Grid System (2014-2019): 25.30 lakhs.

Vinay Gupta: DST Project on Validation and improvement of indigenously developed table-top Surface Plasmon Resonance (SPR) system (2015-2016): 86.31 Lakh.

Vinay Gupta DST Project on Development of thin film Surface Acoustic Wave device as a platform for the sensing applications (2014-2019): 424.38 lakhs.

Vinay Gupta DRDO Project on Molecular Modelling of Halons alternatives (2015-2017): 276.07 lakhs.

Vinay Gupta Ministry IT and Communication (Deity) -sponsored Project on Demonstration of GaN LED by PLD (2014-2016): 470.80 Lakhs.

DST Project on GEM detectors for scientific and medical application (2015-2018):23.48 lakhs.

### **Conference Presentations**

SUSY 2015, August 23-29, Lake Tahoe, USA (Supriya Kar).

STRINGS 2015, June 21-26 (International Conference);ICTS & Indian Institute of Science, Bengluru, India (Supriya Kar).

Effect of argon pressure on the structural and optical properties of rf-sputtered ZnO thin films: Sojiphong Chatraphorn, Chaman Singh, Reena Goyal, Shyama Rath, Siam Physics Congress 2015 May 2015, Thailand. (Shyama Rath).

Modelling and experimental investigations of irradiation effects in Si radiation detectors, Siam Physics Congress May 2015, Thailand. (Shyama Rath).



Strain induced anisotropy enhancement in Pt based hard magnetic alloys International Conference on Multifunctional Materials for Future Application, IIT BHU, 28th Oct 2015 (S. Annapoorni).

27<sup>th</sup> RD50 workshop, CERN, Geneva, Dec. 2-4, 2015 (A. Bhardwaj).

Gordon Research conference on Nuclear Chemistry, Colby Sawyer College, New London, NH USA, May 31—June 5, 2015 (Suresh Kumar).

ICMAGMA-2015), VIT, Vellore, Dec.2015, Dense electronic excitations induced phase transformation in Pt based magnetic alloys International conference on magnetic materials, (2015 (Advisory Committee member) (S. Annapoorni).

Invited Talk, “Thin films and multilayer structures of multiferroics for energy harvesting applications”, International conference on Materials Science and Technology”, Conference Center, University of Delhi, Delhi, 1-4 March 2016. (Vinay Gupta)

20<sup>th</sup> National Seminar on Crystal Growth and Applications (NSCGA), January 19 - 21, 2016, BARC, Mumbai, Advisory Committee member and Chairing a Technical Session “Flux Growth and characterization of lead free functional Crystals”. (Binay Kumar)

Invited Talk in Twenty Sixth National Seminar On Crystal Growth and Epitaxy (XXVI-NSCGE) during March 14-15, 2016., Crystal Growth Center, Anna University. (Binay Kumar)

Invited Talk in 11<sup>th</sup> National conference on Solid state ionics at Department of Physics, Tezpur University 20 – 23<sup>rd</sup> Dec.2015. (S. Murugavel)

Invited talk in 2<sup>nd</sup> National conference on materials for energy conversion and storage at Pondicherry University, 10-13<sup>th</sup> March 2016. (S. Murugavel)

Invited talk in Workshop on Low Energy Ion Beam Facility (LEIBF -2015), Inter University Accelerator Center (IUAC), Nov. 2015. (S. Annapoorni)

DAE Nuclear Physics Symposium 2015, Prasanthi Nillayam, Andhra India, 7-11 December, 2015. (Suresh Kumar)

Invited Talk, “Semiconductor thin films and nanostructure for UV photodetectors and Biosensors”, National conference on Semiconductor Materials and Devices, IIT Jodhpur, 4-6 March 2016. (Vinay Gupta)

Invited Talk and Session Chair, Conference on Microscopy of Materials during 2<sup>nd</sup> Annual General Meeting of Academy of Microscope Science & Technology (AMST), 26 Feb 2016, Thapar University, Patiala. (Vinay Gupta)

Key Note address, “The World of Physics”, in the Enrichment Programme - Fundamentals of Physics for teachers of classes VI- X, the DPS Society’s- HRD Centre, February 2016. (Vinay Gupta)

### **Inter-Institutional Collaboration**

Indo-US joint Networked Center on the Analysis of Variable Star Data funded by IUSSTF – collaboration between University of Delhi, State University of New York, University of Florida, Texas A&M University and IUCAA, Pune. (H. P. Singh)

Collaborative research work between Inter University Accelerator Center – UGC-DAE Indore and University of Delhi. (S. Annapoorni)

With Tata Institute of fundamental Research, Institute for Plasma Research, Gandhinagar. (Avinash Khare)

Collaborative work between DU and IGCAR. (Sevi Murugavel)

Featured in Accelerator knowledge Portal, International Atomic Energy Agency, Vienna (<http://nucleus.iaea.org/sites/accelerators/Pages/default.aspx>) (Shyama Rath)

Country-wide collaboration on Compact Muon Solenoid (CMS) experiment in High Energy physics with National (TIFR, SINP, BARC, etc.) and International (CERN, Fermilab, DESY etc.) institutions (Ashok Kumar, A. Bhardwaj, B.C. Choudhary, M. Naimuddin, K. Ranjan)

### **No. of M.Phil/ Ph.D. Degrees Awarded**

Ph.D.: 27

### **Faculty Strength**

Permanent: 47;

UGC-FRP:01;

DST INSPIRE: 4

### **Other Significant Information**

One faculty member joined the Editorial Board of Pramana -Journal of Physics (Awadhesh Prasad)

A new program for the nuclear data evaluation was started by Dr Suresh Kumar under the network of International Atomic Energy Agency (IAEA) for the activities of nuclear structure and decay data evaluation and compilation. (Suresh Kumar).

## **ZOOLOGY**

### **Major Activities and Achievements**

The Department of Zoology was recognized as the Centre for Advanced Studies (CAS) and continues to enjoy this status by special assistance of the UGC-SAP program. The department has created a central instrument facility from grants under DST-FIST program and also from funds given by the University. At present, the department has 195 M.Sc., 25 M.Phil and 89 Ph.D. students. The current research and teaching in the Department include Animal Physiology, Animal Behaviour, Aquaculture, Cell Signaling, Endocrinology, Entomology, Microbiology, Genomics and Metagenomics, Molecular Cell Biology, Chromatin and Cancer Biology, Radiation Biology, Chronobiology, Reproductive Physiology and Toxicology. Apart from teaching, the faculty has been publishing papers in peer-reviewed research journals. Faculty members are presently collaborating with leading institutes of the country like IMTECH, IARI, TERI, NEERI, ICGEB, IGIB, NII, and NIHFV. All faculty members have extramural funding for their research projects and the Department international collaborations with Austria, USA, Switzerland, and Norway. The Department has been holding various workshops, symposia, conferences and other teaching courses to provide a platform for scientific exchanges. Department organizes workshops for college teachers to make them adapt with current trends.

### **Honors/Distinctions**

Prof. Rup Lal was elected as Fellow, Indian National Science Academy, Delhi

Prof. Rup Lal, Prof. Umesh Rai, Prof. R.K. Seth, Prof. M.M. Chaturvedi – these faculty members were elected as Fellow, National Academy of Sciences, Allahabad.

Prof. Rup Lal and Prof. Rina Chakrabarti were elected as Fellow of National Academy of Agricultural Sciences.

Dr. Shibnath Mazumder received INSA-Teachers Award:

Prof. R. K. Seth was elected as Fellow of Royal Entomological Society

**Publications:** (selected 6)

Panwar, D., Rawal, L., Sehgal, N., and Ali, S. (2015) Cross Talk between KGF and KITLG Proteins Implicated with Ovarian Folliculogenesis in Buffalo *Bubalus bubalis*. *PLoS One*, 10(6), e0127993.

Anjalika, C., Agrawal, N. (2016) Curcumin modulates cell death and is protective in Huntington's disease. *Nature Scientific Reports* 6:18736 DOI: 10.1038/srep18736

Negi, R. K., Maurya, A. (2015) Heavy Metal Concentrations in Tissues of Major Carp and Exotic Carp from Bhagwanpur Fish Pond, India. *J. Fisheries and Aquatic Science* 10 (6): 543-552.

Sharma, A., Sangwan, N., Negi, V., Kohli, P., Rao, D. L. N. and Lal, R. (2015) Pan-genome dynamics of *Pseudomonas* gene complements enriched across hexachlorocyclohexane dumpsite. *BMC Genomics*.16: 313.

Khangembam, B. K. and Chakrabarti, R. (2015) Trypsin from the digestive system of carp *Cirrhinus mrigala*: Purification, Characterization and its potential application. *Food Chemistry* 175: 386-394. DOI: 10.1016/j.foodchem.2014.11.140

Rana V.S., Popli S., Saurav G.K., Raina H.S., Chaubey R., Ramamurthy V.V. and Rajagopal R. (2015) A *B. tabaci* midgut protein interacts with begomoviruses and plays a role in virus transmission. *Cellular Microbiol.* 18: 663-678. DOI: 10.1111/cmi.12538

**Research Projects**

Prof. Rina Chakrabarti: DBT-BBSRC (UK) funded Project Development of alternative sustainable fish feeds to promote human health using novel non-conventional indigenous ingredients

Prof. Rup Lal: DBT-funded project- Production of rifamycin analogues against multi-drug resistant (MDR) strains of *Mycobacterium tuberculosis* by the manipulation of rifamycin polyketide biosynthetic gene cluster of *Amycolatopsis mediterranei* S699 and understanding the changes in human microbiome under antibiotic treatment regimen in patients suffering from tuberculosis

Prof. Rup Lal: DST-funded project- Characterization of Free Living Ciliated Protists as indicators of pollution and their impact on the micro-ecology of Yamuna River flowing through National Capital Region (NCR) of Delhi, India.

**Conference Presentations**

A special session on "Digestive Enzymes in Fish" in the International Conference "WA2015", organized by World Aquaculture Society held in Jeju, Korea during May 26-30, 2015.

Renovating Bacterial Taxonomy with Bioinformatics from 14.05.2015 to 15.05.2015 organized by Department of Zoology, University of Delhi.

European Biological Rhythms (EBRS)/World Congress of Chronobiology (WCC) Manchester, UK, 2-6 August 2015. (Prof. Vinod Kumar as Invited speaker, Session Chair).

Annual Conference of Association of Microbiologists of India, Jawaharlal Nehru University, Delhi; 7.12.2015. (Prof. Rup Lal and Prof. D. K. Singh)

10<sup>th</sup> Uttarakhand State Science & Technology Congress organized by Uttarakhand State Council for Science & Technology Dehradun from 10-12 Feb.2016. (Dr. R. K. Negi)

#### **Inter-Institutional Collaboration**

Prof. Rina Chakrabarti: Development of alternative sustainable fish feeds to promote human health using novel non-conventional indigenous ingredients. Collaborators: India: Goa University, Kerala University of Fisheries, Delhi Technological University, UK: University of Stirling, Scottish Association for Marine Science, Africa: Sokoine University of Agriculture, Aquacultural Association of Kenya, State Department of Fisheries, Funded by DBT, India - BBSRC, UK.

Prof. D. K. Singh: Estimating traceability using nuclear and molecular techniques for foods and feeds in India. Collaborators: Institutes/Universities of the following countries: USA, UK, Austria, India, China, Morocco, Chile, Portugal, Singapore, Thailand, Botswana, Lebanon, Uganda.IAEA/FAO

**No. of M.Phil./ Ph.D. awarded:** (2014-2015)

M.Phil: 10

Ph.D.: 45

#### **Faculty Strength**

18 Permanent

## **FACULTY OF SOCIAL SCIENCES**

### **AFRICAN STUDIES**

#### **Major Activities and Achievements**

The Department of African Studies, was established on 6<sup>th</sup> August, 1955 by the First Prime Minister Of India, Pt. Jawaharlal Nehru. It accomplished its Golden Jubilee in 2005. The area of specializations are History, Politics, Society, Economy, Geography and Literature of African affairs.

The Department is actively engaged in teaching and training the scholars for ongoing research endeavors. The M.Phil. and Ph.D. scholars are trained to do research on the relevant issues and topics on Africa and produce quality research paper. Till date the Department has awarded M.Phil. degree to 391 scholars and awarded Ph.D. degree to 97 scholars. Besides this, the Department also teaches Swahili, one of the major African languages spoken in Eastern Africa. Till today more than 200 students have been awarded Diploma and Certificate in Swahili Language. Many of them are engaged in the work of translation and interpretation for those who are doing their business in Africa.

In 2005, University Grants Commission (U.G.C.) established Center for African Studies within the Department. With the grants given by the UGC, the Department has been able to carry out its academic activities such as seminars, conferences and special lectures, apart from procuring books and journals for the Department Library. Besides, the grant was given to faculty members to visit Africa and acquire first hand field experience. Part of the grant was allocated to Ph.D. scholars to assist them financially to go to Africa for collecting data for the research.

Major and minor research projects have been taken up by the Department consistently. One of the projects is Hashim Mbita Project, sponsored by Southern Africa Development Community (SADC) to work on India, NAM and its role in the liberation of Southern Africa.

## **Publications**

Dash, Sandipani. (2015). India-Southern Africa Extractive-Resource Production Linkage: A Symmetrical Perspective in Paramjit Singh Sahai, ed., *India and Southern Africa: Forging Ahead through Partnership*, New Delhi: Pentagon.

Dash, Sandipani. (2015). Dynamics of Extractive Resource in Africa: Prospects for India. (ed.) G. B. Books, New Delhi.

Kapoor, Rashmi. (2015). "Indian Influences on Swahili Language" in *The Rising Africa: Opportunities and Challenges for India*. A. S. Yauringam and Rashmi Kapoor (eds.) Delhi: Centre for African Studies, Department of African Studies, University of Delhi, Delhi.

Kapoor, Rashmi. (2015). *The Rising Africa: Opportunities and Challenges for India*. Co-edited with A. S. Yauringam. Delhi: Centre for African Studies, Department of African Studies, University of Delhi, Delhi.

Kumar, Suresh. (2015). *Role of India in the Liberation of Southern Africa*. Mkuki ana Nyota Publisher. Tanzania.

Kumar, Suresh. (2015). *India and Economic Development of SADC: Challenges and Opportunities* in Paramjit Singh Sahai *India and Southern Africa*. Pentagon Press. Delhi.

Kumar, Suresh. (2015). *Project Opportunities in Southern Africa* in Paramjit Singh Sahai *India and Southern Africa*. Pentagon Press. Delhi.

Kumar, Suresh. (2015). *Foreign Policy of India West Asia and North Africa*. (ed.) New Century Publications, New Delhi.

Singh, Gajendra. (2015). "Lok Sanskriti aur Sahityik Paramparayen" Chapter Published in Book titled: *Bhartiya Up Mahadweep Ki Sanskritiyan*. Published by Hindi Madhyam Karyanvya Nideshalya, University of Delhi.

## **Research Projects**

Dr. Gajendra Singh was University of Delhi R & D Project on *Ancestral Roots of Modern Man: Digging of South Africa*.

Dr. Rashmi Kapoor was University of Delhi R & D Project on *Climate Change and its Impact on Fisheries: A Comparative Study of Kenya and Kerala*.

Prof. Suresh Kumar was University of Delhi R & D Project on *Development of Yoga Connection in India and Africa*.

## **Conferences Organized**

Two Day National Conference was organised on 'Africa Since 2000: Transition and Change' on 18<sup>th</sup> – 19<sup>th</sup> February, 2016.

National Seminar was organized on 'State Rebuilding', Prof. Adam Habib, Vice Chancellor, WITS University, South Africa on 8<sup>th</sup> March, 2016.

National Conference was organized on ‘*African Studies Programme in India: Prospects and Challenges*’ on 18<sup>th</sup> March, 2016.

#### **Inter-Institutional Collaboration**

Prof. Suresh Kumar is the Chief Collaborator of the Indian Council of Social Science Research - National Institute for the Humanities and Social Sciences (ICSSR-NIHSS) International Joint Research Project on *Religion, Yoga and Education in India and South Africa (2016-2018)*.

#### **No. of M.Phil. Degrees Awarded**

M.Phil awarded: 05

#### **Faculty Strength:**

Permanent: 07

#### **Other Significant Information**

The Department conducts in-depth study and research on selected issues in the various Study groups it has set up Study groups such as *India Africa Relations, South Africa, Human Rights, Refugees and Sudan Study Units*.

## **ADULT CONTINUING EDUCATION & EXTENSION**

#### **Major Activities and Achievements**

The Department of Adult Continuing Education & Extension is a full-fledged Department under Faculty of Social Sciences. It offers M.A. in Lifelong Learning, M.Phil and Ph.D. in Lifelong Learning along with four short-term courses on Counseling & Guidance, Travel and Tourism, Speed Reading with Comprehension and Radio-broadcasting. The University Grants Commission has accepted and granted an International proposal of collaboration in Lifelong Learning and Extension with University of Wurzburg (for four years). The Department is engaged in an exchange programme with University of Wurzburg for last one year wherein 17 students and two faculty has visited University of Wurzburg with equal number of participants and faculty exchanging the visit.

#### **Honours/Distinctions**

Prof. Rajesh visited University Wurzburg, Germany as visiting Professor in October 2015.

Prof. J. P. Dubey visited and participated in the Winter workshop at University Wurzburg, Germany, as visiting Professor in 2016.

Prof. J. P. Dubey was awarded ‘Best Educationist’ by Newspaper Association of India (NAI).

Prof. J. P. Dubey was appointed Dean, Faculty of Social Sciences in December 2015.

Prof. J. P. Dubey was appointed Chairman, Standing Committee, Academic Council, University of Delhi.

#### **Publications**

Dubey, J.P. (2015). *Care for the Ailing Senior Citizens: The status of unpaid and paid care in India*. Mittal Publications.

Rajesh. (2015). Commonality of Syllabus in public and private Elementary Schools of South Kashmir in India. *Journal of Lifelong Learning. ASHIA*. 2:1. Oct-March. 2015.

Rajesh. (2015). Transgender in Higher Education. *IJLL*. 2:1.

Rajesh. (2015). A Study of Employability among Elderly Population. *IJLL*. 2:1.

Yadav, Rahul. (2015). Literacy, Adult Education and Lifelong Learning in independent India. CPDHE (HRDC). DU. Batch-082. December in *Dimensions of Higher Education*. New Delhi Publisher, Delhi.

### **Research Projects**

Professor J. P. Dubey has brought an International Project of *Indo-German Partnership from UGC- DAAD* with the partner university of Wurzburg for four years beginning from 2016- 2020. The total value of the Project is Rs 8800000/.

Professor J. P. Dubey was awarded UGC Major Project on ‘*A Study of Skill Training Initiative Undertaken by Extension of Higher Education through the DACEE in North & Central India*’ for Rs. 5,46,000.

Professor J. P. Dubey was given grant for a National Seminar on ‘*Prior Learning and its Integration in Re-skilling of Neo-literates*’ of Rs. 3,00,000.

Professor J. P. Dubey was awarded University of Delhi R&D grant for ‘*A Study of Professionalization of Adult & Lifelong Learning in India*’.

Professor Prakash Narayan was awarded University of Delhi R&D grant for ‘*A Study of the effectiveness of Counseling & Guidance & Mentoring in the University system –A Pilot study*’.

Professor Rajesh was awarded University of Delhi R&D grant for ‘*Innovations and opportunities to the marginalized groups in India: Sharing experiences of Community Learning Centers*’.

Professor V. K. Dixit was awarded University of Delhi R&D grant for ‘*A Study of prospect and Effectiveness of Alternative Education System*’.

### **Conferences Organized**

A National Seminar on ‘*Prior Learning and its Integration in Re-skilling of Neo-literates*’ was organized on 17-18 March, 2016.

A Seminar-Workshop for student scholars from University of Wurzburg, Germany was organized on 6-10 September, 2015.

### **Inter -Institutional Collaboration**

Professor J. P. Dubey received funding for *Speed Reading Project* from the Central Vigilance Commission.

A National Seminar on ‘*Prior Learning and its Integration in Re-skilling of Neo-literates*’ was funded by ICSSR. The Department has a collaboration with Wurzburg University, Germany.

### **Faculty Strength**

Permanent: 06

### **Other Significant Information**

The Department has developed two new short-term courses on ‘*Radio Broadcasting*’ and ‘*Speed Reading with comprehension*’ as skill training programme for both University and Non-university groups. The internship programme for the third semester students has now expanded to more than 30 organizations.

## EAST ASIAN STUDIES

### Major Activities and Achievements

The department of East Asian Studies was established in 1964. It celebrated its Golden Jubilee in 2014. Prof. Tansen Sen, City University of New York delivered V.P Dutt Memorial Lecture on 9<sup>th</sup> April 2015. The title of the talk was *The Long March that Never Was: The Delhi-Peking Friendship March of 1963 and Its Global Context*. Mitsubishi Corporation has continued with its scholarship to deserving students. This year eight students have got this scholarship. A Ph.D. student, Mr. Bhim Bahdur Subba was awarded the *Harvard-Yenching- Institute of Chinese Studies fellowship* to study Language in China for one year and to do research in Harvard University for another year.

### Honours/Distinctions

Prof. Anita Sharma was awarded the *Second World Buddhist Outstanding Award 2015* from Government of Thailand and the World Fellowship of Buddhist Youth.

Dr. G. Balachandirane was a Visiting Professor at the *Osaka School of International Public Policy* from 1<sup>st</sup> March till 31<sup>st</sup> March, 2016.

### Publications

Balachandirane, G. (2015). Smell of the Soil: Peasant Diaries of pre-war Japan. *China Report*. 51:2. 87-101.

Balachandirane, G. (2015). Tales Diaries Tell: Agriculture and Historiography of pre war Japan Occasional Paper No. 1 of the *Occasional Paper Series of the Department of East Asian Studies*, University of Delhi.

Bhattacharya, Abanti. (2015). Book Review of Strong Society, Smart State by James Reilly. *China Report*. 48:3. 365-367.

Chakrabarti, Sreemati. (2015). Tagore's Travels to China in Radha Chakravarty and Suryakanti Tripathi (ed.) Tagore: The Eternal Seeker. *Indian Council for World Affairs*. New Delhi.

Chakrabarti, Sreemati. (2015). Civilizational Bonding or Nation-state Rivalry: India and China in the Twenty First Century. *Global Dialogue Review*.

Chakrabarti, Sreemati. (2015). China Under Mao: A Revolution Derailed. Book Review. *China Report*. 51:4.

Sharma, Anita. (2015). Buddhist Engagement in Southeast Asia-A Case Study of Vietnam. in *Mekong-Ganga Axis*, Pankaj Mittal, Ravi Bhushan and Daisy, eds. DK Printworld, New Delhi.

### Conferences Organized

International Seminar with the collaboration with Researcher's Association for the Study of Korea (RASK) on 'Evolving Indo- Korea Relations: Perspectives on South Asia' was held on March 27-28, 2015.

The Department organised a conference on 'China's Involvement in Latin America: Lessons for India' on 27<sup>th</sup> November 2015.

The Department organised a National Seminar on 'China: Language, Culture & Literature in Transition' on 12<sup>th</sup> March 2016.



### **Conferences Presentations**

Prof. Anita Sharma presented a paper on '*The Experience of Buddhism: A Study of Early Buddhist Literature*' at 3rd Annual International Conference on Humanities & Arts in a Global World, Athens, Greece, 3-6 January 2016.

Prof. Sreemati Chakrabarti delivered Keynote address at Cheena Bhawan, Vishwabharati, Santiniketan at a Conference on '*Civilizational Interface between India and China*' September 26, 2015.

Prof. Sreemati Chakrabarti presented a paper titled '*Introduction: India-China Relations in the present Era*' in a Symposium on India-China Relations, National Seminar on 'India's Foreign Policy in the Changing World Order' at Maharaj Agrasen College, University of Delhi, March 14, 2016.

Dr. G. Balatchandirane presented a paper on '*Higher Education in India and China: Game Changer or Lost Opportunity?*' at the Osaka International School of Public Policy, Osaka University on 3<sup>rd</sup> March 2016.

### **Inter- Institutional Collaboration**

Department has collaboration with the following institutions and universities:

Korea Foundation

Japan Foundation

John Hopkins University, USA

New School, New York, USA

Researchers' Association for the Study of Korea, New Delhi

Korea Institute for International Economic Policy

Korean Association of Indian Social Science Research

Institute of Peace and Conflict Studies, New Delhi

Institute of Chinese Studies, New Delhi

Centre for Policy Research, New Delhi

Jawahar Lal Nehru University, New Delhi

Centre for Air Power Studies, New Delhi

### **No. of MPhil/ Ph.D. Degrees Awarded**

M.Phil: 09

Ph.D.: 03

### **Faculty Strength**

Permanent: 14

Ad-hoc: 03

### **Other Significant Information**

Dr. G. Balatchandirane is working on a project '*Human Capital in India and Japan*' along with Prof. Binod Khadria of Zakir Husain Centre for Educational Studies of JNU, Prof. Shigeharu Nomura of Osaka School of International Public Policy and Prof. Masaka Takayama of the Faculty of Economics, both of Osaka University.

## **ECONOMICS**

### **Major Activities and Achievements**

During the period April 2015 to March 2016, members of the Department continued to contribute to the field of

economics in significant ways. The Department remains a UGC Centre of Advanced Study, and for the fifth successive year, it was ranked the highest amongst university economics departments in India by Repec, a global electronic archive of working papers and publications in Economics (<http://ideas.repec.org/top/top.india.html>). During the year, the department organized two major international conferences and a weekly seminar series that brought in distinguished speakers from India and abroad to present their research. A regular colloquium was organized for M.Phil. & Ph.D. students, in which research students presented their State-of –the- Art and faculty members lectured on Research Methods and Ethics. The Department has been very successful in placing its Masters graduates in corporate jobs as well as in Ph.D. programmes in the top-grades universities abroad.

### **Honours/Distinctions**

Prof. Pami Dua served as President of the Indian Econometric Society.

Prof. Santosh Panda (on lien) was appointed Vice President of South Asian University.

Prof. Rohini Somanathan, Residential Fellowship was awarded at the Edmond J. Safra Centre for Ethics, Harvard University, 2015-16.

Prof. Shreekant Gupta, Faculty Associate, Centre on Asia and Globalisation, LKY School of Public Policy, NUS 2015 - Present.

Prof. Sunil Kanwar, University of Goettingen, Department of Economics, Summer Semester 2015.

Dr. Neha Gupta was awarded the MJ Manohar Rao Award of the Indian Econometric Society.

Dr. Dibyendu Maiti received Research Incubation Award 2015, The University of the South Pacific.

### **Publications**

Aye, G.C., Dua, P. and Gupta, R. (2015). Forecasting Indian Macroeconomic Variables using medium scale VAR Models, in S.K. Upadhyay (ed.), *Current Trends in Bayesian Methodology with Applications*, Chapman Hall/CRC Press.

Bag, Sugata. (2015). On Breach Remedies: Contracting with Bilateral Selfish Investment and Two-sided Private Information. In Subrata Guha, Rajendra Kundu, and S. Subramanian (eds.), *Contribution to Economic Analysis: Essays in Honour of Satish Jain*, Routledge, New Delhi.

Bag, Sugata. (2015). Regulating Air Pollution in Delhi: All at Fault but None to Blame!, In *Nation Building Through Higher Education*, New Delhi Publication, Delhi.

Bhattacharjea, A. & Sinha, U.B. (2015). Multi-Market Collusion with Territorial Allocation, *International Journal of Industrial Organization*, 41, 42-50.

Birol, E., Meenakshi, J.V., Oparinde, Adawale, Perez, Salomon & Tomlins, Keith. (2015). Developing Country Consumers' Acceptance of Biofortified Foods: A synthesis, *Food Security*, 7, pp. 555-568.

Chauhan, G.S., Paramjit & Vijay, G. (2015). Sustainable Biodiversity, It's Conservation and Eco-Tourism-A Case Study of Nagarjunasagar Srisailam Tiger Reserve, Andra Pradesh (India) pp 144-155, *The Horizon – Journal of Social Sciences* No. 1/2015 Volume VI (ISSN-09755535).

Das, Mausumi. (2015). "Intersectoral Linkages in the Indian Economy during the Post-reform Period" in P. Patnaik (ed.), *ICSSR Research Surveys and Explorations: Macroeconomics*, Vol 3, Oxford University Press, New Delhi.

- Deshpande, A. (2016). Disadvantage and Discrimination in Self-employment: Caste gaps in earnings in Indian Small businesses, with Smriti Sharma, *Small Business Economics: An Entrepreneurship Journal*, 46 (2):325-346.
- Deshpande, A. (2016). Who is the Identifiable Victim?: Caste and Charitable Giving in Modern India, with Dean Spears, *Economic Development and Cultural Change*, Vol. 64, No. 2, pp. 299-321.
- Deshpande, A. (2015). Deprivation, Caste inequality and the Maoist Conflict in India, in N. Jayaram (editor), For Satish Saberwal, *Essays in Historical and Comparative Studies*, Orient Blackswan.
- Dua, P., & Garg, R. (2014). Macroeconomic Determinants of Foreign Direct Investment: Evidence from India. *The Journal of Developing Areas*, 49(1), 133-155.
- Dua, P. & Tuteja, (2015). D. Impact of Eurozone Sovereign Debt Crisis on China and India, *Singapore Economic Review*.
- Ghosh, Parikshit & Ray, Debraj. (2016). Information and Enforcement in Informal Credit Markets, *Economica*, 83(269), 59-90.
- Goel, Deepti & Gupta, Sonam. (2015). The Effect of Metro Expansions on Air Pollution in Delhi, *The World Bank Economic Review*.
- Jafarey, S. and Maiti, D. (2015). Glass Slippers and Glass Ceilings: An Analysis of Marital Anticipation and Female Education' *Journal of Development Economics*, 115, 45–61.
- Jain, S., Kumar, S. & Paramjit.(2015). Valuation of environmental benefits in Asian Countries. In S. Managi (ed.), *Routledge Handbook of Environmental Economics in Asia*, Routledge, New York (USA).
- Jain, S., Kumar, S. & Paramjit. (2015). Valuation of environmental Benefits in Asian Countries. In S. Managi (ed.), *Routledge Handbook of Environmental Economics in Asia*, Routledge, New York (USA).
- Kabiraj, T. & Sinha, U.B. (2015). Foreign Entry, Acquisition Target and Host Country Welfare, *Manchester School*, Vol. 83(6), 725-748.
- Kumar, P., Kumar, S., & Joshi, L. (2015). *Socioeconomics and Environmental Implications of Agricultural Residues Burning*, Springer, New Delhi. ISBN No. 978-81-322-2146-3.
- Kumar, S. & Managi, S. (2016). Carbon Sensitive Productivity, Climate and Institution, *Environment and Development Economics*, Vol. 21(1), pp. 109-133.
- Kumar, S., Fujii, H, & Managi, S. (2015). Substitute or complement? Assessing renewable and non-renewable energy in OED countries, *Applied Economics* Vol. 47, no. 14 pp. 1438-1459.
- Kumar, S. & Kumar, S. (2015). Does Modernization Improve Performance: Evidence from Indian Police, *European Journal of Law and Economics*, Vol 39, pp. 57-77.
- Kumar, S. (2015). Technological Change and the Environment. In S. Managi (ed.), *Routledge Handbook of Environmental Economics in Asia*, Routledge, New York (USA).
- Kumar, S. & Managai, S. (2015). Productivity, Institutions and Climate Change: Lessons for Asian Countries. In S. Managi (ed.), *Routledge Handbook of Environmental Economics in Asia*, Routledge, New York (USA).
- Maiti, D. and Kumar, S. (2016). Regional Agreements, Trade Costs and Flows in the Pacific Island Economics, *Economica Politica*, DOI: 10.1007/s40888-016-0029-z.

Maiti, D. and Marjit, S. (2015). Regional Openness, Income Growth and Convergence of Indian States during 1980-2009, *South Asian Economic Journal*, 16 (1), 145-166.

Pandit, B.L. & Tuteja, Divya (2015). Monetary Policy Transmission: Cointegration and Vector Error Correction Analysis. in B.L. Pandit, *Global Financial Crisis and the Indian Economy*, Springer, India.

Paramjit, (2015). *Inclusive Growth- What About Employment*, with Bharat Bhushan and Shiksha Gupta pp 614-622, HSB 7th Annual National conference on Business and Management, Guru Jambheshwar University of Science & Technology, Hisar ISBN 9789384224226.

Paramjit, (2015). *Relationship between Return and Risk for Indian Stock Market: A MIDAS Regression Approach*, with Ved Pal pp 381-388 HSB 7<sup>th</sup> Annual National Conference on Business and Management, Guru Jambheshwar University of Science & Technology, Hisar ISBN 9789384224226.

Paramjit & Singh, Gajender. (2015). Agriculture and Trade of the Indus Valley Civilization pp 49-53, *Journal of Environment And Social Science Research* (ISSN-22775226) Vol. 4.

Paramjit, (2015). *Corporate Social Responsibility and Sustainable Development* with Geetanjali Singh pp 206-220 Editor Pardeep S. Chauhan, Twenty First Century Publications, Patiala (Punjab), ISBN: 9789380748894.

Prakash, K. and Maiti, D. (2016). Devaluation, Trade balances and the J-curve phenomenon: The case of Fiji, *Economic Modelling*, 55, 382-393.

Ray, S.C., Kumbhakar, S.C. and Dua, P. (eds.) (2015). *Benchmarking for Performance Evaluation*, Springer. ISBN No. 978-81-322-2253-8.

Singh, R. (2015). Existence and efficiency of equilibria: When care is multidimensional. in Subrata Guha, Rajendra Kundu, and S. Subramanian (eds.), *Contributions to Economic Analysis: Essays in Honour of Satish Jain*, Routledge, New Delhi.

Somanathan, R., Roemer, John & Acharya, Advit. (2015). Caste, Corruption, and Political Competition in India, *Research in Economics*, Volume 69, Issue 3, pp. 336-352.

### **Research Projects**

Ram Singh, Delhi School of Economics “Does choice of procurement contract matter for cost and quality of infrastructure?”(International Growth Centre Project Code: 1-VRS-VINC-VXXXX-89209; PI

Ram Singh, Delhi School of Economics “Litigation over Eminent Domain Compensation” International Growth Centre: CPR-INC-INF-2012-CPP-35048. PI

Surender Kumar “Embodied Carbon Trade and Trade Resistances: Evidence from South Asian Countries”, Sponsor: South Asian Network of Development and Environment Economics, Amount: Rs. 10 lakhs (April 2014 to September 2015). PI

### **Conferences Organized**

Winter School 2015 was organized on December 14-16, 2015 that was sponsored by the Export-Import Bank of India.

Special Lecture by Prof. François Bourguignon (Paris School of Economics) on ‘The Globalisation of Inequality’ held on 23<sup>rd</sup> April, 2015.

Public Lecture by Prof. James K. Boyce (University of Massachusetts) on ‘*Climate Bonus: Designing Climate Policy as if the Present Generation Matters*’ held on 27<sup>th</sup> April, 2015.

Special Lecture by Prof. Christophe Jaffrelot (Research Director, CNRS) on “*The ‘Gujarat Model’ – Revisited*” on 13<sup>th</sup> August, 2015.

Workshop on ‘*Embodied Carbon Trade and Trade Resistances: Evidence from South Asian Countries*’ was held on 13<sup>th</sup> August, 2015.

### **Inter-Institutional Collaboration**

The Department of Economics, Delhi School of Economics, is the India counterpart of the *World Project LINK* (initiated and guided by Nobel Laureate late Professor Lawrence Klein) which integrates independently developed national macro models into a global model for macroeconomic forecasting and policy analysis and is coordinated jointly by the UN Department of Economic and Social Affairs and the University of Toronto. In the initial phase Prof. V. Pandit and Prof. late K. Krishnamurty from the Institute of Economic Growth were actively associated with Project LINK. From the Department of Economics, Prof. K. Sundaram and Prof. Pami Dua were jointly involved in more recent years. The project is presently jointly managed by Prof. Pami Dua and N. R. Bhanumurthy, National Institute of Public Finance and Policy with advisory support from Professor V. Pandit.

### **No. of Ph.D. Degrees Awarded**

Ph.D. awarded: 02

### **Faculty Strength**

Permanent: 21

Ad-hoc: 07

## **GEOGRAPHY**

### **Major Activities and Achievements**

The Department leads in strengthening the discipline of Geography in India through its emphasis on Inter-disciplinarity, Innovation and Inclusiveness. The Department of Geography through its teaching and research activities aims in bridging the gap between the physical sciences and social sciences. Faculty members of the department have published research articles in high impact factor peer reviewed journals this year, viz. *Natural Hazards, Social and Cultural Geography, Water and Environment Journal, Physics and Chemistry of Earth etc.* The Department is known for its expertise in the areas of environment, remote sensing/GIS and gender studies. The Media Lab in progress would explore how contemporary media is shaping geographical knowledge. The Department is also receiving Special Assistance under UGC Research Support Programme DRS III (2013-18) for teaching and research in thrust areas of (a) Environment and Resource (b) Urban and Regional Planning. The Department is actively engaged in research collaboration with international partners in the Netherlands, Sweden, Australia, Japan among many others.

### **Honours/Distinctions**

Prof. R B Singh was invited by UN to Moderate a Working Group on *Exposure and Vulnerability* at UNISDR Science and Technology Conference on Sendai Framework of Disaster Risk Reduction, 2015-2030, Geneva (January, 2016).

Prof. R B Singh was invited as Panelist on *Science Advise in Times of Disaster Emergencies in South Africa* by IAP-Global Network of Science Academies (28 February – 2 March, 2016).

Dr. Anindita Dattawas nominated to the Steering Committee of the *IGU Commission on Gender and Geography* for a second term up to 2020.

Dr. Anindita Datta is in Editorial Board of *Gender Place and Culture: A Journal of Feminist Geography* for second term w.e.f. 2015.

Mr. Kiran Bhairannavar won first prize in the *Sexuality and Space Graduate Student Paper Competition 2015*, Association of American Geographers Annual Meeting, 2015, April 21-25, Chicago, USA.

## **Publications**

Anand, S. (2015). Assessment of Spatio–Temporal Expansion of Delhi Metro Rail. *The Horizon*. July. 6: 2. 159-170.

Anand, S. (2015). Some Aspects on Prevailing Trends of Borrowing Money with Special Reference to a Remote Rural Area in Arunachal Pradesh. *The Horizon*. 6: 2. 137 – 148.

Bandyopadhyay, N., Bhuiyan, C., Saha, A.K. (2015). Temperature Extremes, Moisture Deficiency and Their Impacts on Dryland Agriculture in Gujarat, India in Andreu, J., Solera, A., Paredes-Arquiola, J., Haro-Montegudo, D. & van Lanen, H. (eds.) *Drought: Research and Science-Policy Interfacing*, CRC Press. Balkema. 119-124.

Bandyopadhyay, N., Saha, A.K. (2015). Mapping Gender and Gendered Spaces in Drought-Prone Areas of Gujarat in Datta, A (ed.) Proceedings of International Conference on *Re Orienting Gender: Geographies of Resistance, Agency, Violence and Desire in Asia*. R K Books. New Delhi. 127-137.

Bandyopadhyay, N., Saha, A.K. (2016). A comparative analysis of four drought indices using geospatial data in Gujarat, India– *Arabian Journal of Geosciences*. DOI: 10.1007/s12517-016-2378-x.

Bandyopadhyay, N., Bhuiyan, C., Saha, A.K. (2016). Heat waves, temperature extremes and their impacts on monsoon rainfall and meteorological droughts in Gujarat. India – *Natural Hazards*. DOI:10.1007/s11069-016-2205-4.

Datta, A. (2015). Re Assessing Gender, Gender Disparities and Gender Issues in North East India: A Socio Geographic Perspective in Sengupta S et al (eds) *Dynamics of Gender Disparity - North East India Lens*. EBH Publishers. Guwahati.

Datta, A. (ed.) (2015). Proceedings International Conference on *Reorienting Gender: Geographies of Resistance Agency Violence and Desire in Asia*. RK Books. Delhi.

Datta, A. (2016). Yeh Bhoogol shastra nahi hai: on (in)visibilizing gendered geographies of resistance and agency in India. *Social & Cultural Geography*. DOI: 10.1080/14649365.2015.1129434.

De, A. (2015). Divisions of Space among Hindus and Muslims: Making of Everyday Borders and Identities in the World City of Ahmedabad, *Ethnicity in East and North East India*. Roy, Sanjoy (ed.). Gyan Publications. Delhi.

Gulati, A., Rai, S.C. (2015). Farmers' willingness-to-pay towards soil and water conservation measures in agro-ecosystems of Chotanagpur Plateau, India. *Water and Environment Journal*. 29:4. 523-532.

Kapur, A. (2015). *Made Only in India: Goods with Geographical Indications*. Routledge. India.

Kumar, M., Kumar, P. (2016). Snow Cover Dynamics and Timberline Change Detection of Yamunotri Watershed using Multi-temporal Satellite Imagery in Singh, R.B, Schickhoff, U., Mal, S. (eds). *Climate Change, Glacier*

*Response, and Vegetation Dynamics in the Himalaya*. Springer. Switzerland. 391-399.

Kumar, M., Kumar, P. (2016). Snow cover dynamics and geohazards: a case study of Bhilangna watershed. Uttarakhand Himalaya. India. *Geoenvironmental Disasters*. 3:2. DOI: 10.1186/s40677-016-0035-z.

O'Shea, P.M., Roy, S.S. and Singh, R.B. (2016). Diurnal variations in the spatial patterns of air pollution across Delhi. *Theoretical and Applied Climatology*. 124:3.609-620.

Pal, B., Sen, A. (2015). Analyzing the Spatial and Temporal Pattern of Land Use/Land Cover Change of Churu City in Rajasthan in M. Ismail and A. Alam (eds.). *Life and Living Through Newer Spectrum of Geography*. Mohit Publications. Delhi. 123-138.

Pathak, P.K. (2015). Women's Social Network and Use of Family Planning Methods in Rural Uttar Pradesh, India. *National Geographical Journal of India*. 61:3. 287-306.

Prasad, A.S., Pandey, B.W., Leimgruber, W., Kunwar, R.M. (2016). Mountain hazard susceptibility and livelihood security in the upper catchment area of the river Beas, Kullu Valley, Himachal Pradesh, India. *Geoenvironmental Disasters*. 3:3 DOI 10.1186/s40677-016-0037.

Rai, S.C., P.K. Mishra (2016). Indigenous knowledge of terrace management in Sikkim Himalaya, India. in *Environment, Pollution and Socio-economic Development in India*. (eds.). K.K. Yadav, S.P.L. Srivastava and Pramod Kumar. Vijay Prakashan Mandir (P) Ltd. Varanasi.

Rai, S.C. and Saha, A.K. (2015). Impact of urban sprawl on groundwater quality: a case study of Faridabad city, National Capital Region of Delhi. *Arabian Journal of Geosciences*. 8:10. 8039-8045.

Rai, S.C., Rishideo, J. (2015). Floods fury in lower Gandak River basin in *Urban Systems, Rural Livelihood Security and Resource Management*, (eds.) R.D. Doi, Naresh Malik and Mahipal Singh Sihag. Motherland Printing Press. Jaipur. 265-274.

Ranjan, O., Pandey, B.W. (2015). Pivotal Role of Prevailing Informal-Credit-System on Socio-Economic Optimization in Detached Villages: A Case Study of Three Villages of Bihar. *International Journal of Interdisciplinary Research in Science Society and Culture*. IJIRSSC. 1:2.1-13.

Ranjan, O., Pandey, B.W., Anand, S. (2015). Some Aspects on Prevailing Trends of Borrowing Money with Special Reference to a Remote Rural Area in Himachal Pradesh. *The Horizon: A journal of Social Sciences*. 2:6.137-148.

Sharma, S., Sen A. (2015). Gurgaon-Manesar Urban Complex. *Transactions of the Institute of Indian Geographers*. 37:1. 133-146.

Singh, BVR., Sen, A. (2015). Chronological and an Inside Layer Analysis of Tiger Landscape Complex in India. *European Academic Research*. 2:12. 16070-16088.

Singh, BVR., Sen, A. (2015). Comparative Analysis of Tiger Landscape Complexes and Reserves in India: An Evaluation of the Tiger Population 2006-2014. *American Research Thoughts*. 1:8. 1796-1812.

Singh, R.B. *Urban Development Challenges, Risk and Resilience in Asian Mega Cities-Sustainable Urban Future of Emerging Asian Mega Region*. Springer. Tokyo. 2015.

Singh, R.B. *Environmental Geography of South Asia, Contributions toward a future earth Initiative*. Springer. Tokyo. 2015.

Singh, R.B., Janmajaya, M., Dhaka, S.K. and Kumar, V. (2015). Study on the association of greenhouse gas (CO<sub>2</sub>) with monsoon rainfall using AIRS and TRMM satellite observations. *Physics and Chemistry of Earth*. 89-90: 65-72.

Singh, R.B., Kumar, A. (2015). Vulnerability of Agriculture to Climate Change in arid Regions: A Case Study of Western Rajasthan, India in *Vulnerability of Land systems in Asia*. (eds.). Ademola K. Braimoh and He Qing Huang. Wiley Blackwell. 77-90.

Singh, R.B, Kumar P., Rahaman, S. (2016). Science and Geospatial Advice during Cyclone and Tsunami in Bengal Induced Emergency/Health Risk. *NAM Today*. February. LV:2. 08-19.

Singh, R.B., Grover, A. (2015). Analysis of urban heat island (UHI) in relation to Normalized Difference Vegetation Index (NDVI): A comparative study of Delhi and Mumbai. *Environments*. 2. 125-138.

Singh, R.B., Haque, S., Grover, A. (2015). Drinking water, Sanitation and Health in Kolkata Metropolitan City: Contribution towards Urban Sustainability. *Geography, Environment, Sustainability*. 8:4. 64-81.

Yadav, A., Sen, A. (2015). Re-imaging a Smart Identity for Faridabad City in J. Macwan, K. A. Chauhan, R. M. Tailor and C. R. Patel. (eds.). *Sustainable and Smart Cities*. Excel India Publishers. Delhi. 335-347.

### **Research Projects**

Dr. Anindita Datta was awarded University of Delhi R & D Grant 2015-16 for ‘*Voices from the Disciplinary Edge: Mapping the Development of Gender and Feminist Geographies in India*’ for Rs. 1,50,000.

Dr. Anjan Sen was awarded University of Delhi R & D Grant 2015-16 for ‘*Role of Fire and Ice Economies in Making of Global Cities – Case Study of Varanasi and Allahabad*’ for Rs. 1,30,000.

Dr. Ashis K Saha was awarded University of Delhi R & D Grant 2015-16 for ‘*Mapping and Monitoring of Mangroves in Indian Sundarban using Time-Series Remote Sensing Data*’ for Rs. 1,50,000.

Dr. Ashis Kumar Saha was awarded a Project on ‘*Development of Object-Based Image Analysis for Landslide Identification and Hazard Zonation in the Himalaya*’ for Rs. 17.57 lac for 3 Years by the Department of Science & Technology Govt. of India.

Dr. B W Pandey was awarded University of Delhi R & D Grant 2015-16 for ‘*Cryospheric Hazard Susceptibility and Vulnerability Assessment for Livelihood Security in Mid Altitude Region of Western Himalaya*’ for Rs. 1,50,000.

Dr. Subhash Anand was awarded University of Delhi R & D Grant 2015-16 for ‘*Status of Disposal and Management of Electronic Waste in Delhi*’ for Rs. 1,30,000.

### **Conference Organized**

One Day Workshop on ‘*Disaster Risk Reduction and Livelihood Security in the Himalayan Environment*’ was organized by the Department on 23 December, 2015.

UGC-SAP –DRS III National Seminar on ‘*Thrust Areas: Environment and Resource and Urban and Regional Planning*’ was organized by the Department on 20-21 March, 2015.

### **Conference Presentations**

Pandey Bindhyawasini presented a research paper in International Conference on “Mountains of our Future Earth” Centre for Mountain Studies, Perth College, University of the Highlands and Islands, Scotland, UK. 2015.



Pandey Bindhyawasini presented a Research Paper in International Council for Science (ICSU) Financial Support for Our Common Future under Climate Change Conference, UNESCO Paris France. July 2015.

Sen Anjan and Mishra Satyam presented a paper on Pilgrimage Tourism in India and Government Policies: A Critical Evaluation of PRASAD Scheme. NAGI 37th Indian Geography Congress 2015 on “Tourism, Resources, Environment and Development using GIS and Remote Sensing Techniques” at Jammu, J&K, India.

Sen Anjan and Kumar Shailesh presented a paper on Cultural Tourism: A Approach to boost the Economy of Varanasi. NAGI 37th Indian Geography Congress 2015 on “Tourism, Resources, Environment and Development using GIS and Remote Sensing Techniques” at Jammu, J&K, India.

Sen Anjan and Sengupta Soma presented a paper on Re-Inventing a Traditional Green Product in the Contemporary Globalized World - Social Marketing of Traditional Perfume ‘Attar’. IGU Regional Conference 2015 on “Geography, Culture and Society for Our Future Earth” at Moscow, Russia.

Sen Anjan and Chakraborty Ankita presented a paper on Geographical Indications as an Agency to Preserve Indigenous Knowledge - Studying the Handloom Sari Heritage of Bengal. IGU Regional Conference 2015 on “Geography, Culture and Society for Our Future Earth” at Moscow, Russia.

Sen Anjan and Yadav Anuja presented a paper on Re-inventing a Smart Identity for Faridabad City. UGC-SAP-DRS III Seminar 2015 on “Environment & Resource, and Urban & Regional Planning” at Delhi, India.

Sen Anjan and Chakraborty Ankita presented a paper on Re-positioning the Traditional Handloom Sari Heritage of Bengal – Studying the Role of Geographical Indications’. UGC-SAP-DRS III Seminar 2015 on “Environment & Resource, and Urban & Regional Planning” at Delhi, India

Sen Anjan and Kumar Krishna presented a paper on Shaping of Urban Marginalized Spaces: A Behavioural Analysis of Urban Slum Dwellers in Tanki Wali Jhuggi in Raghuvir Nagar, Delhi at 9th International Geographical Union Conference 2016 on “Land-use Change, Climate Extremes and Disaster Risk Reduction” at Delhi, India.

Singh R. B. delivered lecture at Summer School on Application of RS and GIS at Aligarh Muslim University, August 8, 2015.

Singh R. B. delivered lecture at Aditi College, Delhi University Workshop on Role of Women in Disaster management, October 5, 2015.

Singh R. B. delivered lecture at IGU Conference, SNDT Women University on Urban Health during November 4-6, 2015.

### **Inter-Institutional Collaboration**

International collaboration on project entitled “*Livelihood Security in Changing Socio-Economic Environment in Himachal Pradesh*” between University of Turku, Finland and University of Delhi (PI: Prof. R B Singh) has been completed in 2015.

International Collaboration with Dept of Gender Studies, Lund University Sweden under the prestigious LINNEAUS PALME programme is in its third year facilitating two sets of student exchanges between the two departments in the present phase along with the teaching exchanges carried out by Dr. Anindita Datta, Prof. Helle Rydstrom and Dr. Maria Tonini The programme is funded by the Swedish Council of Higher Education and Swedish International Development Agency SIDA.

A jointly supervised doctoral thesis was submitted under a long term collaboration between Dr. Anindita Datta and

Dr. Ajay Bailey of the Faculty of Spatial Sciences University of Groningen the Netherlands.

Dr. Aparajita De was Partner Investigator in a collaborative project "*Women without Fear: Gender Violence, Urban Transport and Public Space in Metropolitan India*" with Faculty of Arts and Faculty of Engineering, Monash University, Australia (April 2015 - December, 2015).

#### **No. of MPhil/ Ph.D. Degrees Awarded**

M.Phil : 12

Ph.D. : 08

#### **Faculty Strength**

Permanent: 14

#### **Other Significant Information**

Prof. R Ramachandran, ex-faculty member of the Department has been honored with "Distinguished Service Awards for Retired Teachers" on University of Delhi Foundation Day, 2016.

Prof. S.C. Rai, Russian Geographical Society, Moscow, Russia, October, 2015.

Dr. Anindita Datta, Department of Gender Studies, Lund University, Sweden, December, 2015.

Dr. B.W. Pandey, Centre for Mountain Studies, Perth College, University of the Highlands and Islands, Crieff Road, Perth, Scotland, UK, 2015.

Dr. Netrananda Sahu, Kyoto University, Japan, January, 2016.

Dr. Pankaj Kumar, The Center for Contemporary India Studies, Hiroshima University, October, 2015.

## **HISTORY**

#### **Major Activities and Achievements**

The Faculty of the History Department presented a large number of well-received research papers on a wide range of historical themes in conferences, seminars and workshops in India and abroad. Several members were involved in organized conferences and seminars. The publication record of the Department is reflected in the large number of research papers published in prestigious national and international journals, as well in the large number of monographs and edited volumes that have been produced. Faculty were recipients of several national and international fellowships and awards. They were involved in a variety of research projects, several of which have come to successful completion. The Department seminar series hosted several well-known speakers who presented their latest research. The Research Scholars' Workshop showcased the impressive research of MPhil and PhD students of the Department.

#### **Honours/Distinctions**

Allianz Distinguished Visiting Scholar in *Islamic Studies, Institute for Near and Middle Eastern Studies, Ludwig Maximilians University, Munich* (June 2015): Awarded to Prof. Sunil Kumar.

Dr. Sanghamitra Misra received *Charles Wallace Trust India Grant*, May 2015.

*Nehru Memorial Museum and Library*, 2015-17: Senior Fellowship, Dr. Biswamoy Pati.

ICSSR, *Foreign Travel Fellowship*, December 2015: Data Collection Abroad, Dr. Charu Gupta.

Rachel Carson Center, Munich, 2015: Fellowship, Dr. Vipul Singh.

Nehru Memorial Museum and Library, 2015-17: Fellowship, Dr. Sanghamitra Misra.

### **Publications**

Alvi, Seema. (2015). *Muslim Cosmopolitanism in the Age of Empire*, Harvard University Press.

Arputharani Sengupta, *Cult of the Goddess*, D K Printworld and National Museum Institute, Delhi.

Bawa, Seema. (2015). Aspects of the Goddess (Raudra and Saumya): A study of two icons from the Chamba Valley in *Cult of the Goddess: Past and Present in Indian Art*, (ed)

Bawa, Seema. (2015). The Theory and Practice of Colour and Colouring in the Vishnudharmottara Purana, in *A Bouquet of Indian Heritage, Research and Management* (Dr. Agam Prasad Felicitation Volume); eds. Prashant Srivastava and Sanjaya Kumar Mahapatra, Swati Publications, New Delhi.

Choudhary, Manisha. (2015), The Court Protocol and Social Ordering in Jaipur State, *International Journal of History and Cultural Studies* (IJHCS), Volume 1, Issue 1, pp. 14-26.

Deshpande, Anirudh. (2015) *The First Line of Defence-Glorious 50 Years of the Border Security Force, BSF*, Shipra Publications.

Deshpande, Anirudh. (2015). *The Shivaji Legend, being the Introduction to Govind Pansare, Who Was Shivaji*, Left Word Books.

Dhar, Parul Pandya. (2015). Challenging Cosmic Order: Ravana's Encounters with Shiva at Belur and Halebidu in *Art, Architecture and Iconography in South Asia*. A Felicitation Volume in honour of Dr. Devangana Desai (eds.) Anila Verghese and Anna L. Dalapiccola, 169-186, Aryan Books International, Delhi.

Dhar, Parul Pandya. (2016) *Temple Architecture and Imagery of South and Southeast Asia*, Aryan Books International.

Dhar, Parul Pandya. (2016). Pioneering Perspectives: The Temple in M.A. Dhaky's Writings, in Parul Pandya Dhar and Gerd J.R. Mevissen (eds.), *Temple Architecture and Imagery of South and Southeast Asia*. Prāsādanidhi: Papers presented to Prof. M.A. Dhaky, xxxix-xlviii,

Dhar, Parul Pandya. (2016). The Early Temples of Campā: Shaping an Architectural Language. In Parul Pandya Dhar and Gerd J.R. Mevissen (eds.), *Temple Architecture and Imagery of South and Southeast Asia*. Prāsādanidhi: Papers Presented to Professor M.A. Dhaky, pp. 30-51, Aryan Books.

Farooqui, Amar. (2015). *Archival Sources Relating to Indian Opium Merchants of the Nineteenth Century*, *Studies in People's History*.

Govind, Rahul. (2015). *The Infinite Double*, Indian Institute of Advanced Study, Shimla.

Gupta, Charu. (2015). Embodying Resistance: Representing Dalits in Colonial India", *South Asia: Journal of South Asian Studies* 38, 1: 100-18.

Gupta, Charu. (2015). Innocent' Victims/ 'Guilty' Migrants: Hindi Public Sphere, Caste and Indentured Women in Colonial North India, *Modern Asian Studies* 49, 5, September: 1345-77.

Gupta, Charu. (2015). Saving 'Wronged' Bodies: Caste, Indentured Women and Hindi Print-Public Sphere in Colonial India, *Proceedings of the Indian History Congress*, Platinum (75<sup>th</sup>) Session.

Gupta, Charu. (2016). Dalit Women as Victims: Iconographies of Suffering, Sympathy and Subservience, *South Asian History and Culture* 7, 1, January: 55-72.

Gupta, Charu. (2016). Intimate Desires: Dalit Women and Religious Conversions in *Colonial India, in Living with Religious Diversity*, eds Sonia Sikka, Bindu Puri and Lori G. Beaman, Oxon, New York and New Delhi: Routledge.

Jafri, S.Z.H. (2015) Indo-Islamic Shikshan tatha Aupniveshik Shasan ki Nitiya", *Itihas Drishti*.

Jafri, S.Z.H. (2016). *Awadh from Mughal to Colonial Rule: Studies in the Anatomy of Transformation* (second revised and enlarged edition), Gyan Publication.

Jain, Shalin. (2015) "Jain Elites and the Mughal State under Shahjahan", *Indian Historical Review*, vol. 42 no. 2.

Kumar, Surendra. (2016). Ashishunta aur Anya Vichar, *Pakhi*.

Kumar, Surendra. (2016). Samaveshi Soch Ki Jarrorat, *Sablog*.

Lahiri, Navanjot. (2015) *Ashoka in Ancient India*, Harvard University Press.

Lahiri, Nyanjot. (2016). *Buddhism in Asia: Revival and Reinvention* (co-edited), Manohar, Delhi.

Malhotra, Anshu. (2015). *Introduction: Gender, Performance and Autobiography in South Asia* (co-authored with Siobhan Lambert Hurley), in Anshu Malhotra and Siobhan Lambert-Hurley, *Speaking of the Self: Gender, Performance and Autobiography in South Asia*, Duke University Press, Durham.

Malhotra, Anshu. (2015). Performing a Persona: Reading Piro's Kafis, in Anshu Malhotra and Siobhan Lambert-Hurley, *Speaking of the Self: Gender, Performance and Autobiography in South Asia*, Duke University Press, Durham.

Malhotra, Anshu. (2015). *Speaking of the Self: Gender, Performance and Autobiography* (co-edited), Duke University Press, Durham.

Pai, Biswamoy. (2016). Environment and Social History: Kalahandi, 1800-1950, in Arun Bandopadhyay (ed.), *Nature, Knowledge and Development: Critical Essays in the Environmental History of India*, Primus, Delhi.

Pothukandiyil, Yasser Arafath. (2015). Muhiyudheen Maala Enna Prathirodha Sahityam *Muhiyudheen Maala as a Resistance Text*, in Jamal Ahmad (ed.), Calicut, India, Islamic Publishing House, Calicut.

Pothukandiyil, Yasser Arafath. (2015). Saints, Goddesses and Serpents: Fertility Culture on Malabar Coast (Circa 1500-1800), in Anna Elizebeth Winterbottom (ed.), *Histories of Medicine in the Indian Ocean World*, Palgrave, New York.

Rai, Santosh. (2015). Ways to Modernisation and Adaptation: The State, Weaving Training Schools and Handloom Weavers in Early Twentieth Century United Provinces”, India, *Indian Historical Review*, vol. 42 no. 2.

Rai, Santosh. (2016)Forms of Modern Organisation and Practices of traditional Mobilisation: Julaha Weavers in Early Twentieth Century Northern India, in Sabyasachi Bhattacharya and Rana P. Behal (eds), *The Vernacularization of Labour Politics*, Tulika Books, New Delhi.

Rai, Santosh. (2016) Many Madanpuras: Memories and histories of migrant weavers of northern India during the nineteenth and twentieth centuries, in Vijaya Ramaswamy (ed.), *Migrations in Medieval and Early Colonial India*, Routledge.

Sahu, B.P. (2013). *The Changing Gaze: Regions and the Constructions of Early India*, Oxford University Press, New Delhi.

Sahu, B.P. (2015). From Regional Histories to the Histories of the Regions and Beyond, Presidential Address, Uttarakhand History and Culture Association, 2015, in *Social Scientist*, nos. 502-03, pp. 33-48.

Sahu, B.P. (2015) Markets, Merchants and Towns in Early Medieval Odisha”, in *Studies in People’s History*, 2(1), 9-20.

Sahu, B.P. (2015). *Society and Culture in Post-Mauryan India c.200 BC- AD 300*, Tulika Books, New Delhi.

Sahu, B.P. (2015) *Interrogating Political Systems: Integrative Processes and States in Pre-Modern India*, Manohar Publishers, New Delhi.

Singh, Upinder. (2015). *A History of Ancient and Early Medieval India: From the Stone Age to the 12<sup>th</sup> century*. Telugu edition.

Singh, Upinder. (2016). *The Idea of Ancient India: Essays on Religion, Politics and Archaeology*, Sage, New Delhi.

Singh, Upinder. (2016). *Asian Encounters: Exploring connected histories* (co-edited with Parul Pandya Dhar), Oxford University Press, New Delhi.

Singh, Upinder. (2016). *Buddhism in Asia: Revival and Reinvention* (co-edited with Nayanjot Lahiri), Manohar, Delhi.

Singh, Vipul. (2016). *Construction of a Regional Identity: Medieval and Early Modern Perception of the Riverine Bihar*, Abhilekh-Bihar, Bihar State Archives, Patna.

Tyagi, Jaya. (2015). The Dynamics of the Early Indian Household: Domesticity, Patronage and Propriety in Textual Traditions, in Kumkum Roy(ed.), *Looking Within, Looking Without, Exploring Households in the Subcontinent through time*, Primus Books, Delhi.

Veluthat, Kesavan. (2015) Trade, Markets and Urbanism: Perceptions of Literature from Medieval Kerala, in *Studies in People’s History*, 2, 1.

Veluthat, Kesavan. (2016). Sastram, Caritram, Manavikata: Samkalina Samasyakal (Science, History, Humanism: contemporary Issues”, in K. Satchidanandan (ed.), *India Fascisathilekku?*” DC Books, Kottayam.

Zou, David. (2016) Environment, Social Identity and Individual Freedom in the Current Historiography in Northeast India”, *Studies in History* 32(1): 1-13.

Zou, David Vumlallian. (2015) Mirrors of Tributary Polity: Chiefs and Overlords at the fringes of Upper Burma and Manipur, in Gin Khan Thang & P. Suantak (eds) *Tributary Hill Polity: Chiefs and Overlords in northern Chin Hills, circa 1800-1948*, 1-18, Mittal Publications, Delhi.

Zou, David Vumlallian. (2016). Peoples, Power and Belief in northeast India”, in Meena Radhakrishna (ed.) *Citizens First: Studies on Tribal, Adivasi, and Indigenous Peoples of India*, New Delhi: Oxford University Press, Released in the USA & India.

### **Research Projects**

Dr. Anirudh Deshpande, *The Border Security Force, SF – History Writing Project*, Total grant received: 75,000 rupees per month (July-November, 2015); Completed in November 2015.

Dr. Charu Gupta, R & D Grant, University of Delhi, 2015-16, *Paradoxes of Sympathy: Dalit Women and Iconographies of Suffering, Victimhood and Subsistence*, Total grant received: Rs. 1,20,000.

Dr. Manisha Choudhary: R & D Grant, University of Delhi, *The depiction of multi-faceted lifestyles in the bhiti-chitrakari of Setha ka Ramgarh and Nawalgarh havelis: A study into popular knowledge system and role of traders*, Total Grant received: Rs. 1,50,000, 2016.

Dr. Parul Pandya Dhar, R & D Grant, University of Delhi, *Socio-political allegories in Chalukyan art*, Total grant received: Rs. 50,000, 2015.

Dr. Parul Pandya Dhar, R & D Grant, University of Delhi, *Architectural Transformations: Ancient India and Indonesia*, Total grant received: 1 lakh, 2016.

Dr. Sanghamitra Misra, R & D Grant, University of Delhi, *Trade, Tribute and Territory in the Garo Hills: Mid 18<sup>th</sup> to the mid 19<sup>th</sup> Century*, Total grant received: Rs. 60,000, 2015.

Prof. Seema Bawa, R & D Grant, Delhi University, *Visualizing the Epic in narrative reliefs: The Ramayana, Imagery, Text & Context (c. 5th to 7th centuries CE)*; Total grant received: Rs. 140,000.

Dr. Shalin Jain, International collaboration with Professor Philip Clayton of Claremont Lincoln University, California, USA.

Dr. Vijaya Laxmi Singh, R&D Grant, University of Delhi, *The City of Banaras- Festivals, Fairs, Tirthas, Ghats and Religious Monuments- an Ethno Historical Enquiry (with special reference to Gender relations)*, Total grant received: 1.35 lakhs, 2016.

Dr. Yasser Arafath Pothukandiyil: R&D Grant University of Delhi, *Encountering Early Kafirs: Resentments and Textual Resistance of the Ulema on the South West Coast of India*, 2015-2016, Total grant received: 1.5 Lakh.

### Conferences Organized

Prof. Sunil Kumar Co-organised the Annual *Indian Economic and Social History Annual Lecture Series*, Stein Auditorium, India Habitat Centre, Delhi in December 2015.

Prof. Jaya Tyagi organised National Workshop on *Feminist Theories and Methodologies*, Women's Studies and Development Centre, University of Delhi in February-March 2016.

Dr. Surendra Kumar Organized National seminar as Coordinator of Rajiv Gandhi Study Circle on *Journey of Modern India*, Constitution Club, Delhi. Funding agency: Rajiv Gandhi Study Circle on 4 March 2016.

Dr. Vijaya Laxmi Singh organised and coordinated *Orientation Programmes* of Four week duration of UGC Academic Staff College, CPDHE, University of Delhi in 2015. Funding agency: UGC.

Dr. Vijaya Laxmi Singh organised and coordinated 60 cycles of *workshops* of 3 to 6 days of UGC Academic Staff College, CPDHE, University of Delhi in 2015. Funding agency: UGC.

Dr. Vijaya Laxmi Singh organised and coordinated 20 *Refresher Courses* of Three week duration in 2015. Funding agency: UGC.

Dr. Charu Gupta was a Resource Person and co-organiser of a Workshop on '*Men, Masculinity and SRHR*', BRAC University, Dhaka and Cox's Bazar, Bangladesh from 6-9 March 2016. Funding agency: JPHSPH, Dhaka and MDF-SA.

### Conference Presentations

Prof . B.P. Sahu presented a paper on *Rituals of Power and Constituting Consent to Rule: A Study of the Sulkis in Early Medieval Odisha* at the Panel on "State and Religion in India: Past and Present" organized by AHS at the 76<sup>th</sup> session of the IHC, Gour-Banga University, Malda in December 2015.

Prof B.P. Sahu presented a paper on *Everyday Lives, Everyday Histories: Towards Understanding Society in Post-Mauryan Deccan* at the International Seminar on "Pre-Colonial Deccan: History, Culture and Literature", Organised by The Department of History, Central University Karnataka, Gulbarga in January 2016.

Prof. Jafri presented a paper on *Religion and State in the World of Rebels of 1857: An Analysis of the Documents, Proclamations and Memoirs* in the panel on *Religion and State in India: Past and present* Organized by Aligarh Historians Society 76<sup>th</sup> Session of Indian History Congress, Gour Banga University, Malda (West Bengal) in December 2015.

Prof. Sunil Kumar presented a paper on *Deep structures: The capitals of the Delhi Sultans and the riverine plain of Delhi, ca. 13<sup>th</sup> -14<sup>th</sup> centuries* at the Institute of Near and Middle Eastern Studies Seminar, Ludwig Maximilians Universitat, Munich in July 2015.

Prof. Sunil Kumar presented a paper on *Politics, History and Folklore and the Making of Hazrat-i Dehli, ca 1200-1300 CE* at Inaugural Professorial Lecture, Ludwig Maximilians Universitat, Munich in May 2015.

Prof. Sunil Kumar presented a paper on *Politics, History and Folklore and the Making of Hazrat-i Dehli, ca 1200-1300 CE* at the Institute of Iranian Studies, Vienna in June 2015.

Prof. Farhat Hasan presented a paper on *The Rule Structure in the Mughal and Ottoman Empires: Towards a Comparative Model of State Formation* at the international Conference jointly organized by JNU (Delhi) and Bilgi University (Istanbul, Turkey) on “Cultural Encounters and Interactions: Ottoman, Mughal, Vijayanagar Empires and Beyond”, JNU (Delhi) in November 2015.

Prof. Farhat Hasan presented a paper on *The Interrogation of Religious Thought and Practice in early Modern India: The heretic and his Social Memory* at the Conference on “Configuring Early Modern South Asia”, organized by JNU (Delhi) and Trinity College (Dublin) in November 2015.

Prof. Seema Alavi presented a paper on *The Arabic interlude in the transition to modern India* at Jawaharlal Nehru University, New Delhi in 2015.

Prof. Seema Alavi presented a paper on *Muslim Cosmopolitanism in the age of Empire* at Jamia Millia University, New Delhi in 2015.

Prof. Seema Alavi presented a paper on *Haji Imdadulah Makki in the age of Empire* at Singapore University, Singapore in 2015.

Prof. Seema Alavi presented a paper on *Muslim Cosmopolitanism in the age of Empire* at Jesus & Mary Convent, Delhi University in 2016.

Prof. Seema Alavi presented a paper on *Muslim Cosmopolis in the 19<sup>th</sup> century* at Kolkata University in 2016.

Prof. Seema Alavi presented a paper on *Muslim Cosmopolitanism in the age of Empire* at Yale University, USA in 2016.

Prof. Seema Alavi presented a paper on *Unani Healing in Early Modern India* at Tufts University, USA in 2016.

Prof. Jaya Tyagi presented a paper on *Strategic Inclusions of the ‘other’: Reconstructing Social Histories from Puranic Traditions* in Seminar on Marginal Categories, Sri Venkateswara College in March 2016.

Prof. Jaya Tyagi presented a paper on *Representations of Women in Early Historic Traditions* in a Seminar on Indian History and Culture, PGDAV College in March 2016.

Prof. Jaya Tyagi presented a paper on *Gender, Varna and Social Propriety in Early Puranic Traditions: Redefining Social Categories in Early India* in National Seminar on “Caste and Gender”, Shyam Lal College in February 2016.

Prof. Seema Bawa presented a paper on *Limits of History*, Ramlal Anand College, University of Delhi in February 2016.

Prof. Seema Bawa presented a paper on *Ratha Yatra of Batuka Mahadeva at Chhatrari: Some art historical and Religious enquiries* at Conference on “Current Himalayan Research: Approaches Methodologies”, at Będlewo near Poznań, Poland organized by the Eastern Research Commission of the Committee of Ethnological Sciences, Polish Academy of Sciences, and Department of Ethnology and Cultural Anthropology, Nicolaus Copernicus University of Toruń in April 2015.

Dr. Anshu Malhotra presented a paper on *Dissonance, Ruses and Search for Resolutions in Piro’s Verse Autobiography from Mid-Nineteenth Century Punjab* in a Workshop on “Narratives of Transformation: Language, Conversion and Indian Traditions of Autobiography” in December 2015.

Dr. Anshu Malhotra presented a paper on *The Miracle of the Guru, the Agency of the Disciple: Understanding Agency in an Autobiographical Fragment* in a Conference on “Identity Assertions and Conflicts in South Asia” at



the Centre of Human Values and Ethics, Guru Gobind Singh Indraprastha University, New Delhi in November 2015.

Dr. Anshu Malhotra presented a paper on *Agonistic Religiosity, Gendered Self and Conversion Narrative* in a Conference on “New Perspectives on Punjab Studies: Rethinking Historiography” at The Nehru Memorial and Library, New Delhi in April 2015.

Dr. Anshu Malhotra presented a paper on *A Deviant Maverick or a Savant Monist? Contradictory Perceptions of Guru Gulabdas’ (1809-1873)* at the conference on “Gurus: Mapping Spirituality in Contemporary India” Yale University in April 2015.

Dr. Charu Gupta delivered a Talk on *The Gender of Caste: Representing Dalits* at Department of History, University of Delhi in September 2015.

Dr. Charu Gupta delivered a Talk on *The Gender of Caste: Representing Dalits* at Ambedkar University, Delhi in October 2015.

Dr. Charu Gupta delivered a Talk on *Gendered Historiographies of Colonial India* at Sarojini Naidu Centre for Women’s Studies, Jamia Millia Islamia, Delhi in October 2015.

Dr. Charu Gupta delivered a Keynote Address on *Gendering Modern India: Intimate Matters, Public Debates* on Academic Day of Department of Political Science, Jesus & Mary College, Delhi in October 2015.

Dr. Charu Gupta delivered a Keynote Address on *Women, Sexuality, Identity and Censorship* at Zakir Husain College (Internal Complaints Committee against Sexual Harassment), Delhi in November 2015.

Dr. Charu Gupta delivered a Keynote Address on *Gender of Caste* at a National Seminar on “Caste and Gender: Historical Perspectives” organized by Shyam Lal College, University of Delhi in February 2016.

Dr. Charu Gupta delivered a Talk on *Forbidden Intimacies: Gender and Hindu Identities in 1920s-30s North India* at a Seminar on “Distorting History, Manufacturing Culture” at Miranda House, University of Delhi in February 2016.

Dr. Charu Gupta delivered a Talk on *Vamp, Victim, Virangana: Constructing Dalit Women in North India* at Department of History’s Annual Festival *Tarikh* on “State, Society and Construction of Labels” at Miranda House, University of Delhi in March 2016.

Dr. Charu Gupta delivered a Talk on *(Im)Possible Love in India* at Rotary Club, South Delhi in March 2016.

Dr. Charu Gupta delivered a Talk on *Desiring Modernity: Religious Conversions and Dalit Women in Colonial United Provinces* at an International Seminar on “India’s Critical Tradition and Maulana Azad” at Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata in November 2015.

Dr. Charu Gupta delivered a Talk on *The Gender of Caste: Representing Dalits* in the Contemporary South Asia Seminar Series, University of Oxford, Oxford, UK in December 2015.

Dr. Vipul Singh presented a paper titled *River, Technology and Rule: Anatomy of Medieval and Modern Canal Construction in the Ganga Basin, India* at Third Conference of East Asian Environmental History, Kagawa University, Takamatsu, Japan in 2015.

Dr. Vijay Laxmi Singh presented a paper on *Internalizing the Revolution and searching for Gender equality: Past and Present, theming upon Planet 50 50: Step it Up for Gender Equality* on International Women's Day, organised by Amity University in March 2016.

Dr. Santosh Rai presented a paper on *Exploring Sources for the Social History of Nineteenth Century United Provinces* in a Two Day National Seminar on "Sources of 18<sup>th</sup> and 19<sup>th</sup> Century" at National Archives of India, New Delhi in March 2016.

Dr. Santosh Rai presented a paper on Children of Kabir: Muslim Julaha Weavers in Colonial North India in "Does History Breathe: Some Perceptions", a National Seminar on History organized by Dept. of History, Shivaji College, University of Delhi in March 2015.

Dr. Shalin Jain presented a paper on *Connected Histories: Cultural Interaction between India and Laos* at an International Conference on "India-Laos: Inter Cultural Linkages", Indira Gandhi National Centre for the Arts (IGNCA), New Delhi in December 2015.

Dr. Yasser Arafat presented a paper on *History and Identity: Situating the 'Discipline' in Contemporary Kerala*, Government Graduate College, Mokeri, University of Calicut, Kerala, India in July 2015.

Dr. Sanghamitra Misra presented a paper titled *Ordering and Orienting Spaces: The Ecology of British Imperialism* in a workshop titled "Borders in Global South", at the Centre for International Politics, Organization and Disarmament, School of International Studies, Jawaharlal Nehru University in February 2016.

Dr. Surendra Kumar presented Paper titled *Women's Rights" Challenges and Solutions*, in a National Seminar at Sesome Girls College, Bikaner in January 2016.

Dr. Manisha Choudhary presented a paper on *Vision Education and committed kalam: Narratives of Life and Zeal to Achieve Dreams* at a National seminar on "Contemporary Indian Thinkers" organized & sponsored by Indian Council of Philosophical Research, New Delhi in March 2016.

Dr. Sajjan Kumar presented a paper on *A Case Study of Tangible Heritage for Development of Tourism in Haryana* in a National Seminar on "Cultural and Military Heritage of Haryana" organised by Sir Chhotu Ram Chair, Maharshi Dayanand University, Rohtak in 2016.

Dr. Sajjan Kumar presented a paper on *Rajatarangini Mein Varnit Nari* in a National Seminar on "Heritage of India: Challenges and Prospects" organised by JVMGRR College, Charkhi Dadri, Haryana in 2015.

#### **No. of MPhil/ Ph.D. Degrees Awarded**

M.Phil: 26

Ph.D.: 23

#### **Faculty Strength**

Permanent: 37

#### **Other Significant Information**

Dr. Anshu Malhotra: Yale University, USA (2015), Conference presentations.

Dr. Charu Gupta: University of Oxford, UK (2015), BRAC University, Bangladesh (2016). Keynote Speaker, Organized Conferences' Panels, Lectures, Discussions, Research Work, Conference Presentations, Workshop conducted.

Dr. Sanghamitra Misra: SOAS and British Library, London. Archival Work.

Dr. Vijaya Laxmi Singh: IJAS Conference at Harvard Campus, Boston USA. Paper presentation.

Dr. Vipul Singh: Kyoto University, Kyoto. Workshop on Modeling for Environmental Humanities at Research Institute for Mathematical Sciences.

Dr. Rahul Govind: British Library, London. Archival work.

Prof. Nayanjot Lahiri: Australia-India Institute (Melbourne), University of Peradeniya (Kandy), Bendaranaike Centre of International Studies (Colombo). Delivered Invited Lectures.

Prof. Seema Alavi: Tufts Univ, USA; Yale Univ, USA; Singapore Univ, Singapore; NYU, Abu Dhabi. Presented research papers at international conferences in these universities.

Prof. Seema Bawa: Museum of Asiatische Kunst, Berlin. Talk on Matrimurtis and Matridevis of Mathura and Associated Sites, 30th April 2015.

Prof. Sunil Kumar: Institute of Near and Middle Eastern Studies Seminar, Ludwig Maximilians Universitat, Munich; Institute of Iranian Studies, Vienna; School of Oriental and African Studies, London University; Toyo Bunko, Tokyo, Japan. Conference Presentations, Lectures, Discussion, Research guidance.

Prof. Upinder Singh: New York University – Shanghai; Victoria and Albert Museum, London; Getty Institute, Los Angeles. Gave lectures, participated in round-table.

## **POLITICAL SCIENCE**

### **Major Activities and Achievements**

The Department was established in 1952, with the strength of postgraduate students having grown steadily, from 40 then to more than 1000 now.

In both its research and teaching, the Department has encouraged a comprehensive and comparative study of the field of politics, while keeping the Indian reality firmly in sight. It has also sought to de-centre investigations of the political, and craft a research agenda that questions the applicability of dominant European models of thought and practice to postcolonial contexts, while acknowledging how critically important it is for us to grasp those models. It has, in particular, encouraged studies in the sub-field of Indian Political Thought, in conjunction and in comparison with Western Political Theory. Methodologically, it has remained ecumenical, remaining open both to quantitative and interpretive analysis, and to statistical as well as ethnographic and archival research.

The Department has delineated 'Democracy, Norms, and Institutions' as constituting its current thrust area, which has been the focus of several national and international seminars it has organized. Of major activities pursued over the last year, the most significant have been: three inter-institutional collaborative projects and eleven other major

projects undertaken by various faculty, and the introduction of thirty-one new optional courses for the MA Political Science Program.

### **Honours/Distinctions**

Prof. Navnita Chadha Behera was IBIES, Erasmus Mundus Visiting Fellow at University of Warsaw, Poland, June 2015-July 2015.

### **Publications**

Acharya, Ashok. (2015). "The Grounds for, and Limits of, Affirmative Action Policy in India." in *Constitutional Development and Governance in India*, edited by Subhas Kashyap. PHISPC project: Pearson.

Banerjee, Madhulika. (2015). 'Ayurvedic Medicines in Qadeer', in *India Social Development Report 2014: Challenges of Public Health*, edited by Imrana Qadeer & Council for Social Development. Oxford University Press, 153-160.

Behera, Navnita Chadha. (2016). "Knowledge Production," Special Issue on 'Global IR and Regional Worlds,' *International Studies Review*, 18.

Behera, Navnita Chadha. (2016) "The Kashmir Conflict: Multiple Faultlines," in *Journal of Asian Security and International Affairs* 3, no.1: 41-63.

Chakrabarty, Bidyut. (2016) "BR Ambedkar and the History of Constitutionalizing India," *Contemporary South Asia* 24, no. 2 forthcoming.

Chakrabarty, Bidyut. (2015) "Localizing Governance: pros and cons," *International Journal of Urban Sciences* 19, no. 2.

Chakrabarty, Bidyut. (2015). "Narrativising Women Empowerment in India," *Indian Journal of Public Administration*, no. 1.

Chakrabarty, Bidyut. (2015). "Universal Benefit: Trusteeship in Gandhian perspective," *Modern Asian Studies* 49: 2.

Chowdhory, Nasreen. (2016) Guest Editor and author of Special Issue on "Displacement – A 'State Of Exception' And Beyond: Issues And Perspectives in Forced Migration in South Asia, Marginality And State Of Exception in Camps in South Asia," in *International Journal of Migration and Border Studies* 2, Issue 2.

Chakrabarty, Bidyut & Prakash Chand. (2016) *Indian Administration in an Evolutionary Perspective*. Sage Publications, New Delhi.

Chakrabarty, Bidyut & Prakash Chand. (2016) *Public Policy: Concept, Theory and Practice*. Sage Publications, New Delhi.

Chakrabarty, Bidyut, & Sugato Hazra. (2016) *Winning the Mandate: The Indian Experience*. Sage Publications, New Delhi.

- Chakrabarty, Bidyut. (2015). *Left Radicalism in India*. London & New York: Routledge.
- Chakrabarty, Bidyut. (2016) *Ethics in Governance in India*. London & New York: Routledge.
- Chakrabarty, Bidyut. *Localizing Governance and participation in India*. London & New York: Routledge, (forthcoming).
- Choudhary, Sunil K, and Yogesh Atal., eds. (2015) *RIGHT Turn in Indian Polity: MODI on BJP's Chariot*, P.248, Har-Anand Publications, Delhi.
- Datta, Pradip Kumar. (2015) "Co-operation and Co-operatives: The global dilemmas of Tagore's Rural Democracy," *Literature Compass* 12/5: 184–193, 10.1111/lic3.12232.
- Dev, Rajesh. (2015) "Institutionalizing social policies in the margins: A comparative study of 'NREGA' in Meghalaya & Jharkhand." in *Politics of Welfare: Comparisons across Indian states*, edited by Louise Tillin et.al. Oxford University Press, Delhi.
- Giri, Saroj. (2016) "The Happy Accident of a Utopia." in *An American Utopia, Dual Power and the Universal Army*, edited by Fredric Jameson and Slavoj Zizek. London: Verso.
- Giri, Saroj. (2016) "Radical Subjectivity Contra Stalinism," *Crisis and Critique* 3, issue, 1.
- H.M, Sanjeev Kumar. (2016) "Metonymies of Fear: Islamophobia and the Making of Muslim Identity in Hindi Cinema," *Society and Culture in South Asia* 2, no. 2.
- H.M, Sanjeev Kumar. (2015). "Responding to Western Critiques of the Muslim World: Deconstructing the Cliché of Islamophobia and the Genealogies of Islamic Extremism," *British Journal of Middle Eastern Studies* 42, no. 4: 579-598.
- H.M, Sanjeev Kumar., et al. (2016) *Contemporary Indian Politics: Internal Dynamics and External Compulsions- Essays in Honour of S.S. Patagundi*. Pinnacle Learning, New Delhi.
- H.M., Sanjeev Kumar and Dev N. Pathak., eds. (2016) *Political Processes in India*. Pinnacle Learning, New Delhi.
- H.M., Sanjeev Kumar (ed.). (2016) "Deconstructing India Pakistan Conflict: Perspectives from the Epistemic Conceptions of South Asian Regional Security." in *Contemporary Indian Politics: Internal Dynamics and External Compulsions - Essays in Honour of S.S. Patagundi*, al. Pinnacle Learning, New Delhi.
- H.M., Sanjeev Kumar. (2016) Introduction, 'Mapping India's Internal and External Politics', in Sanjeev Kumar HM (co.ed.), *Contemporary Indian Politics: Internal Dynamics and External Compulsions - Essays in Honour of S.S. Patagundi*, Pinnacle Learning, New Delhi.
- Kukreja, Veena. (2015) "Indo-Pak Relations: Retrospect and Prospects." in *India and Her Neighbours: Towards a Proactive Partnership*, edited by Mohammed Badrul Alam. Kalpaz Publication, Delhi.
- Kukreja, Veena. (2015) "India's Foreign Policy in the Multi-Polar World: Challenges and Opportunities," *Bihar Journal of Political Science* 4, no. 1.

- Kukreja, Veena. (2015). "Pakistan's Army form an Institutional Pressure Group to Final Arbiter in Governance," *The Indian Journal of Public Administration* LXI, no. 3.
- Kukreja, Veena, (2016) 'The Menace of Narco Power in Pakistan', *Indian Journal of Public Administration*, Vol. LXII, No. 2.
- Ragi, Sangit Kumar. (2015) "Missionaries and Naxal Movement in India," *Dialogue*.
- Ragi, Sangit Kumar. (2015) "Nehru: A Troubled in Indian Association of Social Science Institutions," *IASSI Quarterly* 34, nos. 1-4: 210-216.
- Ragi, Sangit Kumar. (2015) *Administrative Thinkers*. Trinity, Delhi.
- Saxena, Rekha, and M.P. Singh. (2015) "Intergovernmental Relations in India." in *Intergovernmental Relations in Federal Systems*, edited by Johanne Poirier, Cheryl Saunders, and John Kincaid. OUP, Toronto.
- Saxena, Rekha. (2015) "The Problems of Statehood in Indian Federalism: A Case for Territorial Pluralism." in *Globalisation and Governance in India: New Challenges to Society and Institution*, edited by Harihar Bhattacharyya and Lion Koenig. London and New York: Routledge.
- Sharma, Devika and Jason Miklian. (2016). "India's Global Foreign Policy Engagements—A New Paradigm?" *Norwegian Peace building Resource Centre Report*, available at: [http://www.peacebuilding.no/var/ezflow\\_site/storage/original/application/5b8313e0b6a939d7f0aff25b7cb1218b.pdf](http://www.peacebuilding.no/var/ezflow_site/storage/original/application/5b8313e0b6a939d7f0aff25b7cb1218b.pdf).
- Singh, Shri Prakash and Sushma Yadav., eds. (2015) *Dr. Ambedkar on Social Justice: Legal Political & Social Land Scape*. New Delhi: Manak Publications and Indian Institute of Public Administration (IIPA).
- Singh, Shri Prakash and Sushma Yadav., eds. (2015) *Kartavya Nistha Karamyogi: Dr. Bheem Rao Ambedkar*. Manak Publications, New Delhi and Indian Institute of Public Administration (IIPA).
- Singh, Shri Prakash, and Swadesh Singh., eds. (2015) *Cultural Nationalism: The Indian Perspective*, Vol. 1. Globus Press, Delhi.
- Singh, Shri Prakash and Swadesh Singh., eds. (2015) *Dalit Agenda for 21st Century*, Vol. 1. Globus Press, Delhi.
- Singh, Shri Prakash, and Swadesh Singh., eds. (2015) *Harijan, Dalit and Beyond*. Alka Publication, Delhi.
- Singh, Shri Prakash. (2015) *Chakravarti Rajgopalachari: Vyaktitva Krititvaevam Vichar*. Shree Natraj Prakashan, Delhi.
- Singh, Shri Prakash. (2015) *Dr. Ambedkar: Alpsankhyak Prashna Evam Samvaidhanic Pravdhan*. Anamika Publisher, New Delhi.
- Singh, Ujjwal. (2015) "In Search of 'Good Democracy': Electoral Laws, Political Dynamics and the Election Commission of India." in *The Search for Good Democracy in Asia*, edited by Insub Mah and Heek Lee. Manak, Delhi.

Singh, Satyajit. (2016). "Decentralization of Village Forest Councils in North India: Conflict Resolution, Recentralization and Politics," *Intercultural Studies* 20, University of Ryukoku, Japan.

Singh, Ujjwal and Anupama Roy. (2015) "The Masculinist Security State and Anti-terror Law Regimes in India," *Asian Studies Review* 39, Issue 2.

Sukumar, N. and Shailaja Menon. (2015) Guest Editors of Special Issue on "Human Dignity and Human Rights", in *Social Action*.

Sukumar, N. and Shailaja Menon. (2015) "Are Human Being Equal in Dignity and Rights", *Social Action Quarterly Journal* Special Issue on "Human Dignity and Human Rights", Indian Social Institute, New Delhi.

Sukumar, N. (2015) "Why Beef was Banished from My Kitchen: Food and Cultural Selfhood," *EPW Web Exclusives* L, no. 17.

Sukumar, N. (2015). Human Dignity and Human Rights, ISSN 0037-7627, India Social Institute, *Social Action*.

Tiwary, Bipin Kumar, and Chander Shakher., eds. (2015) *Dharohar: The Glory of the North East-Gyanodaya-V*. University of Delhi.

### **Research Projects**

Dr. Bipin K. Tiwary University of Delhi Project on *Non Traditional Security in India: Understanding Environmental Issues in Himalayan Region*.

Dr. Nasreen Chowdhary University of Delhi Project on *Gendered Dimension of Migration in India*.

Prof. Navnita C. Behera Al-Akhawayn University, Morocco and New School, New York, USA Project on *IR Text Book: A Global South Perspective*.

Prof. Navnita C. Behera College of Williams and Mary, USA Project on *Teaching Research and International (TRIP) Project Survey*.

Prof. Navnita C. Behera ICSSR Project on *Reworking the Knowledge Structure in International Relations: Indian Contributions*.

Prof. Navnita C. Behera Universidad de Andes, Columbia, University of Copenhagen, Denmark & Macalester College, USA Project on *World of International Relations Scholarship: Geo-Cultural Epistemologies*.

Prof. Navnita C. Behera World Involvement Studies Committee (WISC) and Maulana Abdul Kalam Azad Institute of Asian Studies (MAKAIS) Project on *Alternative Cosmologies and Knowledge System in IR*.

Prof. Prakash Singh Ministry of HRD, Govt. of India, New Delhi, *CSTT Glossary of Political Science Dictionary*.

Prof. Prakash Singh Ministry of HRD, Govt. of India, New Delhi, *CSTT Fundamentals of Political Science*.

Prof. Prakash Singh Pracheen Bhartiya University of Delhi Project on *Rajnitik Chintan Paramparaon ka Vishleshan*.

Dr. Rajesh Dev King's College, London and CSDS, *Delhi Comparative State Politics and Public Policy*.

Prof. Rekha Saxena University of Delhi Project on *Political Science Gendered Federalism: A Case Study of India*.

Prof. Sangeet K. Ragi University of Delhi Project on *Decoding Muzzafarnagar Riots 2013: Role of State, Social Media and Political Parties*.

Prof. Satyajit Singh University of Delhi Project on *Local Governments, Climate Change and Adaptation*.

Prof. Ujjwal K. Singh University of Delhi Project on *Electoral Politics and Election Commission of India*.

Prof. Ujjwal K. Singh/ Navnita C. Behera (as Head of the Department) UGC CAS-SAP-1 *Globalisation, Democracy and Justice*.

Prof. Ujjwal K. Singh/Prof. Navnita C. Behera (as Head of the Department UGC/CAS/SAP) *Democracy, Norms and Institutions*.

Prof. Ujjwal K. Singh/Prof. Navnita C. Behera (as Head of the Department) *European Union Exchange by Promoting Quality Education, Research and Training in South and South-East Asia* (EXPERTS III).

### **Conference Organized**

Law, Institutions and Political Philosophy, 21-22 August, 2015.

Gender, Identity and Migration in India, 7-8 August, 2015.

Roundtable Discussion on Intergovernmental Relations in India, 7 December, 2015.

Prof. Navnita C. Behera, Won a Global, Competitive Call issued by the World International Studies Committee (WISC) to host Exploratory Workshops. This along with a ICSSR conference grant and additional financial support provided by the Maulana Abdul Kalam Institute of Asian Studies was utilized for organizing three international workshops at the Institute for Research on India and International Studies. The first two workshops were on 'Alternative Cosmologies and Knowledge Systems in International Relations,' and included both senior and young scholars from India, Columbia, Ecuador, USA, Turkey, Malaysia, South Africa, Nigeria, Denmark, Philippines, Japan, Canada, Mexico and Germany. For the second workshop, eighteen young scholars were selected from forty-five scholars who applied from all parts of the world by an international group of scholars. The third workshop on the theme of 'Inculcating Ontological Competence: Seeing the World/Cosmos through Multiple Ontological Lenses', was a training/mentoring workshop run by Prof. Tamara Trownswell. All three workshops were held at the India International Centre, New Delhi, from 9-14Jan 2016.

Interpreting Key Texts of Ambedkar for Contemporary India, 18-27 February, 2016.

### **Conference Presentations**

Prof. Ashok Acharya gave Keynote address on 'Affirmative Action and the Politics of Disadvantage in the Global South', in the Symposium on Global Justice: New Directions in Research and Advocacy, Ghent University, Belgium, 4-5 September, 2015.



Prof. Ashok Acharya gave Keynote Address on ‘*Theorizing Vulnerability: A Global South Perspective*’ at the International Association for Bioethics World Congress June 2016, Edinburgh.

Prof. Ashok Acharya delivered a lecture on ‘*Gandhi’s Cosmopolitics*’, at Griffith University, May, 2

Dr. Bipin Kumar Tiwary presented a Paper on ‘*Addressing Barriers – Physical Accessibility*’ at Indian Institute of Management – Ahmadabad (IIM-A) in a National Seminar on ‘Accessible and Inclusive Higher education’ in coordination with Ministry of Social Justice and Empowerment (MSJE) on Sunday, 28 February, 2016.

Dr. Nasreen Chowdhory presented a paper on “*Post-conflict Reconciliation in Sri Lanka: Performing ‘Liberal Transition’*” paper presented in 57<sup>th</sup> Annual Convention of International Studies Association, Atlanta, Georgia, 16-19 March 2016.

Dr. Nasreen Chowdhory was a panelist in “*A Canadian Refugee Research Network: Globalizing Knowledge*,” 2008-2015, by the Social Sciences and Humanities Research Council (SSHRC) through their Strategic Knowledge Cluster program, at York University, Toronto, Canada , 15 – 16 May 2015.

Dr. Nasreen Chowdhory was a Panelist in Roundtable discussion on *Advancing Protection and Fostering Belonging in a Global Era of the Criminalization of Migration*, 8th Annual Conference of the Canadian Association for Refugee and Forced Migration Studies (CARFMS) Hosted by Department of Criminology, Ryerson University in collaboration with Ryerson Centre for Immigration and Settlement (RCIS) In Toronto, Ontario, Canada 13-15 May 2015.

Dr. Nasreen Chowdhory Paper presented a paper on ‘*Making Citizens from Below: Belonging and Rights of Refugees in Camps in Tamil Nadu*’, International Conference on Migration and Citizenship(s), 30 May–1 June, 2016, IIAS, Shimla, India.

Prof. N. Sukumar presented a paper on ‘*A Journey with Ambedkar*’, Philosophy of B.R. Ambedkar in Contemporary Period, ICSSR International Seminar organised by Central University of Gujarat, 16- 18 March 2016.

Prof. N. Sukumar presented a paper on ‘*Caste Stigma in Indian Universities*’, in a Workshop on Discrimination, Exclusion and Humiliation in Higher Education: Politics, Policy and Practice, School of Social Sciences, IGNOU New Delhi, 2 February 2016.

Prof. N. Sukumar, presented a paper on ‘*On Well Being*’, Indo-Swiss Joint Research Program in the Social Sciences, 2nd Joint Seminar was organised by ICSSR and University of Lausanne, 8 to 10 Sept 2015.

Prof. Navnita C. Behera presented a paper on ‘*Alternative Trajectories for South Asian Peace*’, in a panel on ‘Inter-relationship of Domestic, Systemic and Regional Peace: A Case Study- South Asia and Indian Ocean’, at the International Studies Association’s 57<sup>th</sup> Convention on ‘Exploring Peace’, at Atlanta, USA, 17 Mar 2016.

Prof. Navnita C. Behera was a Discussant for ‘*Looking for Peace in South Asian Conflict Zones*’, including Shubranshu Misra, Kanika Rakhra and Michael R. Porter, at the International Studies Association’s 57<sup>th</sup> Convention on ‘Exploring Peace’, at Atlanta, USA, 16 Mar 2016.

Prof. Navnita C. Behera organised Brainstorming Workshop on ‘*Reworking the Knowledge Structures in International Relations: Some Indian Contributions*’ at IIC, New Delhi, 24 April 2015.

Prof. Navnita C. Behera was a Panelist in a Roundtable Discussion on '*Is there a European Approach to International Relations? The Future of International Relations Discipline in Europe*', along with Thomas Diez, Lene Hansen and Maria Raquel at the EISA Pan-European Conference on International Relations, Giardini-Naxos, Sicily, 23 to 26 September 2015.

Prof. Navnita C. Behera was a Panelist in a Roundtable Discussion on '*Insecurity Complexes: Different Views*', at the RESHAPE, 3<sup>rd</sup> Annual Workshop on 'Insecurity Complexes: The EU and Member States Responses', held at Department of Political and Social Sciences, University of Catania, Sicily, Italy. 11 to 12 Jun 2015.

Prof. Navnita C. Behera was a Panelist in an international seminar on '*India as a Global Actor: New Challenges and Opportunities*', at Institute for International Relations, University of Warsaw, 3 Jun 2015.

Prof. Navnita C. Behera presented a paper on '*Mapping the Embedded Pluralities: Societal Bases of Political Authority in Indian Traditions*', for a panel on 'Colonized Discipline and Decolonizing Minds: Some Indian Imprints', at the EISA Pan-European Conference on International Relations, Giardini-Naxos, Sicily, 23 to 26 Sept 2015.

Prof. Navnita C. Behera presented a paper on '*Political Identities, Sovereign States and Civilizational Pathways: Exploring Alternate Future*', in an international conference on 'Civilizations in Embrace: Historical and Contemporary Perspectives on Ideas, Peace and World Order', at University of Maryland, College Park, USA, 21 Mar 2016.

Prof. Navnita C. Behera was Semi-Plenary Speaker on '*After Empire: New Legacies for International Thought*', along with Arlene B. Tickner, Gurminder Bhambra and George Lawson at the EISA Pan-European Conference on International Relations, Giardini-Naxos, Sicily, 23 to 26 September 2015.

Prof. Shri Prakash Singh delivered a lecture on '*Dr. Ambedkar and Urbanization*' on International Seminar on 'Dr. Ambedkar's Global Vision: The Emerging Knowledge Society in 21<sup>st</sup> Century', B.B.A Central University Lucknow, 7-9 March 2016.

Prof. Shri Prakash Singh delivered a lecture on '*Vedic Research Methodology*' in National seminar on 'The Reading of Social Science and Political Philosophy' organized by C.C Singh University, Meerut & IDSA, 14 March 2016.

Prof. Shri Prakash Singh delivered a lecture on '*Vedic Research Methodology to study Indian Political Thought*' Workshop on 'Research Methodology' organized by GND Khalsa College and ICSSR, New Delhi on March 26, 2016.

Prof. Rekha Saxena presented a paper on '*Asymmetrical Federalism: A Key to India's Unity in Diversity*' to the IACFS international Conference in Montreal, Canada on 2-3 October, 2015.

Prof. Rekha Saxena presented a Paper on '*Judicial Federalism in India*', in the Lever Hulme International Conference, organized by University of Bristol, held in Bristol, UK, 16-17, December.

Prof. Rekha Saxena presented a paper on '*Rajya Sabha: Federal or Secondary Chamber*' at the International Conference organized by Lever Hulme International Network, UK and Hyderabad Central University in Hyderabad on 9-11 April, 2015.

Prof. Rekha Saxena presented a paper on '*Rajya Sabha as a Federal Chamber: A Case Study of Private Member Bills*', at the UK PSA International Conference held in Brighton, UK, 2016.

Prof. Sangeet K Ragi delivered a lecture on '*Sardar Patel: Nationalism and Statecraft*', at the School of Studies in Ancient History, & Archaeology, Jiwaji University, Gwalior, 4 Nov 2015.

Prof. Sangeet K Ragi presented a paper on '*Ambedkar: Issue in Challenges in Economic Growth and Social Justice*', at the Maharaja Sayajirao, University of Baroda, 18 April 2016.

Prof. Sanjeev Kumar H.M. delivered a lecture on '*Deontology, the Age of Reason and the Indian Intellectual Traditions*', in the National Conference on 'A Paradigm of Integral Human Development in the Thoughts of Pandit Deendayal Upadhyay' sponsored by ICPR at the Academy of Comparative Philosophy & Religion, Belgavi, Karnataka, 21-23 May, 2016.

Prof. Satyajit Singh presented a paper on '*Jograd for 'Nyaya' from Sarkariat: Everyday Moral/Ethical Claims and Politics of Conservation in Rural Garhwal*', International Workshop on Law, Institutions and Political Philosophy, University of Delhi, Yale & Birmingham, 21-22 August, 2015.

Prof. Shanta N. Verma presented a paper on '*Environmental Ethos and Legal engagement: Contexting Silent Valley and Beyond in Kerala*' at an International Conference/Workshop on Law Institutions and Political Philosophy, Department of Political Science, University of Delhi, 21-22 August 2015.

Dr. Sohini Guha presented a paper on '*Social Justice in Postcolonial India: Some Predicaments*' at the International Seminar on 'Law, Institutions and Political Philosophy,' University of Delhi, August 21-22, 2015.

Prof. Sunil K Choudhary was a discussant for Technical Session 1 – '*Political Thinking in Ancient Sanskrit Literature*', National Seminar on Political Thinking in Indian Literature, Chaudhary Charan Singh University, Meerut and Indian Political Science Association, 13 to 14 February 2016.

Prof. Sunil K Choudhary presented a paper on '*Indian Polity: Changing Trends*', National Seminar on Indian Constitution and Technical Terminology, Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Government of India and Department of Political Science, Jay Narayan Vyas University, Jodhpur, Rajasthan, 29 - 30 January 2016.

Prof. Sunil K Choudhary presented a paper on '*Indo-Israel Relations: Changing Trends*', National Seminar on India's Foreign Policy in the International System, Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Government of India and Nehru Studies Centre/Department of Political Science, University of Rajasthan, Jaipur, 28-29 November 2015.

Prof. Sunil K Choudhary presented a paper on '*Transforming Parties: Trends and Challenges*', National Seminar on Political Parties and Their Functioning: Need for Reforms, India International Institute of Democracy and Election Management, Election Commission of India, New Delhi, 25 February 2015.

Prof. Ujjwal Kr. Singh delivered a lecture on the 'Indian Political System' in a month-long International Summer School organized by the Political Science Department, Jamia Millia Islamia, in collaboration with Ritinjali and Swaraj Foundation and Incredible India campaign of the Ministry of Tourism. 29 Jun 2015.

**Inter Institutional Collaboration**

Research Group on Modern South Asian Thinkers

Continuity and Change in Indian Federalism

WISC-MAKAIS-IRIIS, Universidad San Francisco de Quito and DU Workshop on 'Inculcating Ontological Competence: Seeing the World/Cosmos through Multiple Ontological Lenses'

Systems of Relatedness, Culture and Vulnerability in Transition: Dalit Life-worlds in Post-Liberalized India

**No. of M.Phil/ Ph.D. Degrees Awarded**

M.Phil. : 15

Ph.D.: 09

**Faculty Strength:**

Permanent: 19; Ad-hoc: 12

**Other Significant Information**

Dr. Bipin Kumar Tiwary coordinated the Disability Consortium organized by Kings College London along with University of Mexico and Humboldt University in January 2016.

Ph.D. scholar Chandani Mehta received Conference Fund from Indian Institute of Advanced Studies for Paper Presentation at Intimacy and Belonging in Contemporary India Conference, Shimla, 2016.

Ph.D. scholar Chandani Mehta received Conference Fund from University of Gottingen for Paper Presentation at Young South Asia Scholars Conference, Germany, 2016.

M.A. student Aditya Acharya got selected as Youth Delegate, BRICS Youth Summit, Moscow, 2015.

M.A. student Aditya Acharya represented India in the Asian Region Commonwealth Youth & Youth Leaders Forum, Delhi, 2015.

M.A. student Avantika Tewari got selected as Youth Delegate, BRICS Youth Summit, Moscow, 2015.

M.A. student Rhea Mahanta received CHE Scholarship, Israeli Council for Higher Education, 2016.

M.A. student Tamana Sharma received Best Display Award for the Project 'Kashmiriyat' at Antardhwani, Delhi University, 2015.

M.A. student Sneha Sara Felix received Sumitomo Corporation India-St. Stephen's Scholarship, Delhi, 2015.

M.A. student Utsa Sarmin received Golden Key International Honor Society Award, Delhi University.

## SOCIAL WORK

### Major Activities and Achievements

In accordance with the recommendations made by the Honorable President of India at the Vice Chancellors' Conference held at Rashtrapati Bhawan in February, 2015, the MHRD directed all Central Universities to set up a Community Development Cell. The University set up a Committee to oversee the functioning of this Cell, with Prof. Manoj. K Jha as the Chairperson and Prof. Neera Agnimitra as Member Secretary. Five villages have been identified and need based work has been initiated in a participatory mode with the communities. The Department has been made the nodal institution to supervise the functioning of work in the identified villages. In view of the mandate from the Prime Minister, the University of Delhi has also assigned the work related to this to the Department. The Department has earmarked five villages and has been undertaking the mandated agenda through need based interventions in the target areas by successfully collaborating with the agencies and institutions.

### Honours/Distinctions

The Department has been ranked at Number II by the Outlook Survey for the last 6 years. The only point of difference between us and TISS which figures at No I position is in terms of the infrastructural component. The department has attained first position in terms of the parameters of academic achievement, placements and personality development of its student body. This is a matter of great pride for the department and the university.

### Publications

Adusumalli, M. (2015). Towards Sustainable Community and Institutional Response to Climate Extremes: A Situated analysis of Institutions, Communities and their response to climate change induced disasters in Uttarakhand. *ESI Special Edition, Vol. I.*

Adusumalli, M. & Sharma, S. (2015). Revisiting Assessment and Evaluation in Social Work. *Rajat Publication.* New Delhi.

Adusumalli, M. (2016). Interrogating Mainstream Conceptions of Health and Well Being (N. Iqbal, Ed.). In S. Aleem (Ed.), *Positive Vistas in Health and Well-Being.*

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Rani, S. (2015, January). HIV/AIDS and Areas of Counseling. In *Indraprastha Review, An International Refereed Biannual Research Journal of Humanities and Multidisciplinary Studies*, 2(1). Abhishek Prakashan, New Delhi.

Rani, S. (2015, June). Inequality and Health Status Of Dalits (SC/ST) And Challenges. *Mulniwasi Times*. Taneja, J. (2016, April). The Plight of Children Growing Up In HIV Afflicted Families in Delhi. *Asian Journal of Multidisciplinary Studies*.

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Verma, S. (n.d.). A widow, a victim, a mother: Rethinking resilience and well being within the complexities of women's lives in Kashmir. *Intervention: Journal of Mental Health and Psychosocial Support in Conflict Affected Areas*,13(2), 156-170. doi:10.1097/WTF.0000000000000090.

Verma, S. (2015). Evolving Concept of Resilience: Implications for Research And Practice. *Journal of Social Work Education, Research and Action*,1(1), 50-57.

Verma, S. (n.d.). From Teaching to Practice: Reflecting on the Role of Social Work Educators. *Social Work Journal*,6(1).

## **Research Projects**

Dr. Archana Kaushik, Delhi University Research Council funded project, Using short stories and anecdotes as an andragogical approach in social work education. Rs. 50,000.

Prof. Neera Agnimitra, Evaluation Study on the Involvement of Self Help Groups for Providing Supplementary Nutrition to Anganwadi Centres in the State of Delhi, Department of Women and Child Development, Government of NCT of Delhi. Rs. 3.90 Lacs.

Prof. Neera Agnimitra, Convergence of Services and its Impact on Women and Children: A Case Study of a Gender Resource Centre-Suvidha Kendra, under UGC Centre for Advanced Study, Department of Social Work, University of Delhi. Rs. 40,000.

Dr. Neena Pandey, Research and Development scheme 2014-2015 for the project entitled "A Study on the Awareness about the sexual harassment of women at work place (Prevention, Prohibition and Redressal) Act, 2013 amongst staff of University of Delhi." Rs. 50,000.



Dr. Neena Pandey, Ms. Shashi Rani and Mr. Sudhir Maske Project under UGC entitled Gender and Class Analysis of Communal Tension in Delhi: A Study of Bawana and Trilokpuri areas of Delhi. Rs. 40,000.

Prof. Pamela Singla, University of Delhi, Research Unit sponsored project, entitled " Impact of Natural Disasters on the Lives of Local People with a Gender Focus: A Case Study of Jammu and Kashmir, (October, 2014—September, 2015). Rs. 55,000.

Prof. Pamela Singla, University of Delhi, Research Unit sponsored project, entitled "Cloth, Disaster and Livelihood: A Study of People's Participation through Goonj (October, 2015-September, 2016). Rs. 1.5 Lacs.

Dr. Pushpanjali Jha, University of Delhi, Research Unit sponsored project, entitled "A Study on the Awareness about the Sexual Harassment of Women at Work place (Prevention, Prohibition and Redressal) Act, 2013 amongst the staff of University of Delhi". Rs. 50,000.

Prof. Sanjai Bhatt, PREM Division of Ministry of Social Justice and Empowerment, Government of India Research Project, entitled "Evaluation Study of Grant in Aid to Voluntary Organizations working for the welfare of OBCs and SCs". Rs. 8.8 Lacs.

Prof. Sanjai Bhatt, AVA, New Delhi Sponsored Research Project, entitled "Assessing Sustainability and Effectiveness of Government's Rehabilitation Initiatives for Trafficked Child Labourers". Rs. 2.5 Lacs.

Prof. Sanjai Bhatt, Centre for Advanced Study in Social Work, Department of Social Work, University of Delhi Sponsored Research Project, entitled "Convergence of Services and its impact on Women and Children: A Case Study of a Gender Resource Centre-Suvidha Kendra".

Prof. Sanjai Bhatt and Mr. Abhishek Thakur, CBM India Trust Sponsored Research Project, entitled "Poverty Reduction Measurement through CBR Interventions: A Base line Study. Rs. 6.6 Lacs.

Prof. Sanjai Bhatt, TPDDL-CSR and Tata Power Ltd Sponsored Research Project entitled "Study on Socio Economic factors of JJ cluster inhabitants". Rs. 6.5 Lacs.

Dr. Sanjoi Roy and Mr. Pratap C. Behera, CAS (UGC) Sponsored Research Project, "An Analysis of stakeholder Perceptions on Elementary Educational Entitlements: A Study in Wazirpur JJ Colony, Delhi. Rs. 20,000.

Dr. Seema Sharma, University of Delhi Sponsored Research Project, entitled "Habitat, Social Structure and Economy of Marginalization: A Study of Gadulia Lohar Community in Delhi. Rs. 68,000.

Dr. Seema Sharma, Centre for Advanced Study in Social Work, Department of Social Work, University of Delhi Sponsored Research Project, entitled "Sex Work As Traditional Occupation: A Study Of Children From Bediya Community In Delhi". Rs. 40,000.

Dr. Seema Sharma, NYCS Sponsored Research Project, entitled, "Impact Evaluation of Skill Development Programme of NYCS". Rs. 44,000.

### **Conference Organized**

Prof. Neera Agnimitra, "*Department- Agency Interface*" February 18, 2016.

Prof. Pamela Singla, "*Women's Safety and Defense*" February 23-23, 2016.

Prof. Pamela Singla, "*International Women's Day Celebrations, 2016 at Ajit Vihar, Burari*", March 8 2016.

### **Conference Presentations**

A. Malathi, Presented a paper on *Towards Sustainable Community and Institutional Response to Climate Extremes: A Situated analysis of Institutions, Communities and their response to climate change induced disasters in Uttarakhand* in "Global Academic Meeting" Organized by European Scientific Institute and JNU, New Delhi, April, 2015.

A. Malathi presented a paper on *Creating Access to Early Childhood Development Services for Van Gujjar Communities* in **3rd International Conference on ECD "Emerging World: Policies and Practice for ECD" organized by Centre for Early Childhood Development and Research, Jamia Millia Islamia, New Delhi, November 2015.**

A. Malathi presented a paper with Dr R. R. Jyoti as first Author on *Overview of Policies below 3 year children* in **3rd International Conference on ECD "Emerging World: Policies and Practice for ECD" organized by Centre for Early Childhood Development and Research, Jamia Millia Islamia, New Delhi, November 2015.**

A. Malathi presented a paper on *Interrogating Mainstream Conceptions of Health and Well being* In the International Conference on "Psycho-social Perspectives on Health and Wellbeing" organized by Department of Psychology Jamia Millia Islamia, New Delhi, March 2016.

Abhishek Thakur presented a paper on *The social and economic condition of tribal migrant women domestic workers in Mumbai: Understanding the social inequalities* at the International Conference on "Inequality in the 21st Century" organized by London School of Economics and Political Science, United Kingdom, July 2015.

Archana Kaushik presented a paper at the National Conference on "Ending Torture: Collective Concern" on *Ending Torture: Role of social work educational institutions* at Department of Social Work, Mahatma Gandhi Kashi Vidhyapeeth, Varanasi and PVCHR, November 2015.

Meenu Anand presented a paper *Globalization and Indian School Education: Impact and Challenges* in the Global Academic Meet 2015 on "Multi-Disciplinary Approach towards Globalization, Climate Change, Disaster Mitigation, Governance and Human Well-Being. Organized by the Jawaharlal Nehru University and European Scientific Institute, 1 – 4 April 2015.

Meenu Anand presented a Paper *Gendered Aspects of Mental Health: Issues and Strategies* in the International Conference On "Psycho Social Perspective of Health and Well Being". Organized By Department Of Psychology (Ugc Drs), Jamia Millia Islamia, 1 - 2 March 2016.

Meenu Anand presented a Paper *Child Mental Health: The Gender Spectrum* in the Third International Conference On "Early Childhood Development: Emerging Policies and Practice for ECD". Organized By Centre for Early Childhood Development and Research, Jamia Millia Islamia And Save The Children, India, 19 - 20 November 2015.

Meenu Anand presented a Paper *Psycho-Social Determinants of Cardio Metabolic Adversities (CMA) - A Social Work Perspective* in the National Seminar on "Anthropology of Cardio-Metabolic Adversities". Organized by Department of Anthropology, 25 -26 September 2015.

Meenu Anand presented a paper *Unraveling Mental Health: A Human Rights Perspective* in the National Seminar on “Problems and Solutions of Modern India”. Organized by Shri Guru Nanak Girls’ Degree College, Lucknow, 20 -21 April 2015.

Neena Pandey presented a paper on *Reconstructing gender consciousness: Experiences from the Field* in International Seminar on “Gender Equality, Power and Violence against Women, Combating Myths and Understanding, Legal Provisions”, held in Banaras Hindu University, 13 – 15 Feb 2015.

Neena Pandey presented a paper *Right to Education: Equal Rights & Opportunities for Social Participation of Students from Marginalized Sections of the Society* at Amity Institute of Education, New Delhi, 7 October 2015.

Neena Pandey presented a paper *Examining Rape through the lens of Emancipatory Approach* in 3<sup>rd</sup> Indian social Work congress (ISWC) held at Ladnun, Rajasthan, 24 -26 October 2015.

Neena Pandey presented a paper *Folk Culture and Gender* in National conference on “Language, Identity and society; Centrality of language in formation of identity in contemporary society” organized in Gautam Budh University Greater Noida, 30- 31 October 2015.

Neera Agnimitra presented a paper on *Skilling for Inclusive Markets: A Case Study of Empower Pragati* in Workshop on "Skills for Inclusive Markets in India: Leveraging the Private Sector" Organized by UNDP- Istanbul International Centre for Private Sector in Development, FICCI, New Delhi, 29 July, 2015.

Pamela Singla presented paper on *If ever this happens to my family* in one day workshop cum Interaction on “Counseling of Eve Teasers”, ‘Shishtachar programme’ of Delhi Police, Organized by Delhi Police Headquarter North District, 28 August, 2015.

Pamela Singla presented paper on *Ujjawala Scheme: A step towards combating human trafficking- A study of Andhra, Karnataka and Maharashtra* in National Research Conference on “Human Trafficking: Challenges and Interventions” Organized by Christ University, Bangalore, 14-15 September, 2015.

Pamela Singla presented paper on *Safety and Security of Women with specific reference to the Universities* In National Seminar on “Women's Safety and Security in Delhi” Organized by the New Delhi YMCA, Department of Students at Youth, Cultural & Tribal Committee; Auditorium, 29 September, 2015.

Pamela Singla presented paper on *Gender Sensitization: A way of life* in Workshop on “Gender sensitization under the Faculty Development Programme” Organized by Central University, Haryana, 27 October, 2015.

Pratap Chandra Behera presented a paper titled *Dialectics of ICT: Implications on Social Work Practice* in the “Third Indian Social Work Congress 2015 on Community Engagement, Social Responsibility and Social Work Profession”, jointly organised by NAPSWI and Department of Social Work, JVBI, Ladnun, Rajasthan, 24-26 October, 2015.

Pushpanjali Jha presented a paper titled *Self Help Groups and Micro finance for Skill Development and Employment Generation* in an International Training Programme/workshop on "Skill Development and Employment Generation" consisting of Employer's Organizations from the developing countries under the ITEC/SCAAP programme of the Ministry of External Affairs, Government of India at V.V. Giri National Labour institute, NOIDA, 18 August 2015.

Sanjai Bhatt presented a paper titled *The Changing Context of Social Work Practice in India* in The Joint World Conference on “Social Work, Education and Social Development 2016” at COEX, Seoul, Korea, 27 – 30 June, 2016.

Sanjai Bhatt presented a paper titled *Engaging Youth for Disaster Management and Prevention: A Social Work Response* in The Joint World Conference on “Social Work, Education and Social Development 2016” at COEX, Seoul, Korea, 27 – 30 June, 2016.

Sanjoy Roy was a Panelist in Consultation on *Vision Plan for inclusive nutrition security in India from the perspective of socially excluded communities* Organized by NACDOR with the cooperation of GAIN and Centre for the Study of Discrimination & Exclusion, School of Social Sciences, JNU, 10 – 11 March, 2015.

Sanjoy Roy was Guest of Honor/ *Panelist* 'Igniting Billion Minds-Abdul Kalam Vision 2020, Seminar cum Inter College Competition at Dr. Bhim Rao Ambedkar College, University of Delhi.

Seema Sharma presented paper on *Childhood on the Margins: Children of Gudulia Lohars in Delhi* in International Conference on “Early Childhood Development” organized by Jamia Millia Islamia, New Delhi, 19-20 November, 2015.

Seema Sharma presented paper on *Communication Strategies for Implementing CSR Initiatives* in Global Summit on Corporate Social Responsibility, Organized by IIM Raipur, IICA and NLU Bangalore at IIC Delhi, 14 – 15 May, 2015.

Seema Sharma presented paper on *Re- examining caste identity from the perspective of children in rural India* in Taiwan Studies Programme Annual Conference “In Search of New Perspectives, Methods and Finer Factors of Identity Formation- From East Asia to the World”. Asian Studies Centre St Antony’s College Oxford, UK, 4 – 5 September, 2015.

Shashi Rani Dev presented joint paper on *Rural Education Camp: A Wisdom Based Learning Pedagogy to Lead Social Transformation - A Case Study of Manpura Village, Kishangarh, Rajasthan* in XXXIV Annual National Conference of Indian Society of Professional Social Work, (ISPSW), 24 - 26 February, 2016, Organized by Central University of Rajasthan( CURAJ), 2016.

Shashi Rani Dev presented a paper in third International conference on early childhood development, under the title, *The Right Based Approach towards Child Development: Issues and Challenges* in 19 -20 November 2015, organized by Centre for Early Childhood Development and Research (CECDR), Jamia Millia Islamia and Save the Children New Delhi, 2015.

Shashi Rani Dev presented a paper in International Seminar titled *The State of Occupational Health and Safety in India: A Need of Review and Reflection* in the Conference on “Public Health Infrastructure in Transition: Challenges and a Way Forward” in 18– 20 February 2015 jointly organized by Department of Social Work, Jamia Millia Islamia, New Delhi, India and School of Public Health, University of Minnesota (Twin Cities Campus), Minneapolis, USA at JMI, New Delhi, 2015.

Sudhir Maske presented joint paper on *Rural Education Camp: A Wisdom Based Learning Pedagogy to Lead Social Transformation (A Case Study of Manpura Village, Kishangarh, Rajasthan* In 34<sup>th</sup> National Conference on “Social Work and Sustainable Development” organized by Department of Social Work, Central University of Rajasthan & ISPSW, Bangalore, 24-26 February 2016.

Sudhir Maske presented a jointly authored paper on *Anti-Oppressive Social Work Theory and Practice: Contextualizing Caste Debates in Indian Social Work Education* and presented in “3<sup>rd</sup> Indian Social Work Congress: Community Engagement, Social Responsibility and Social Work Profession” organized by NAPSWI and Jain Vishwa Bharti, Ladnun, Rajasthan, 24 – 26 October 2015.

Sudhir Maske presented a jointly authored paper on *ICT in Social Work Practice: Prospects for Social Change in India* at “3<sup>rd</sup> Indian Social Work Congress: Community Engagement, Social Responsibility and Social Work Profession” Organized by NAPSWI and Jain Vishwa Bharti, Ladnun, Rajasthan, 24 – 26 October 2015.

Sushma Batra presented a paper on *Research in Community Engagement* at “3<sup>rd</sup> Indian Social Work Congress: Community Engagement, Social Responsibility and Social Work Profession” organized by NAPSWI and Jain Vishwa Bharti, Ladnun, Rajasthan, 24 – 26 October 2015.

#### **No. of M.Phil. / Ph.D. Degrees Awarded**

M.Phil.: 12

Ph.D.: 08

#### **Faculty Strength**

Permanent: 18

Ad-hoc: 01

#### **Other Significant Information**

The Department has emerged as an institution building close linkages with civil society organizations, government as well as peoples’ movements across India.

**Loktantrashala Series** was organised in collaboration with MKSS and School for Democracy as part on an immensely popular lecture series.

The 2<sup>nd</sup> Annual Ambedkar Memorial Lecture was organized in association with Ambedkar Memorial Lecture Committee on April 4<sup>th</sup>, 2016 to commemorate the 125<sup>th</sup> birth anniversary of Dr. B. R. Ambedkar.

Our alumni are holding very illustrious positions in national and international organizations. They take active participation in government and non-government bodies, international NGOs, media and films, grassroots movements, academia and more.

Academic deliberations such as seminar presentations of the faculty members, sharing of the research work of the M Phil and PhD scholars, and holding talks of the invited speakers are some of the activities carried out in the Research Colloquium in the Department.

The students of the Department formed an Eco Club to raise awareness about environmental issues and promote the role of social workers in addressing environmental concerns.

The Department attained the special status of Centre for Advanced Study by the University Grants Commission. The CAS status reinforces the strong position and recognition that the Department commands, as a very esteemed and renowned school of social work in the country.

The faculty members of the Department continue to play a very active role in most important committees constituted by the Government and civil society organisations which spearhead policy and legislative reforms, evaluations on important components like ICDS, Ujjwala Scheme and others; formulate National Guidelines like Guidelines for Community Based Disaster Management, Ethics Committees, Editorial Boards, Advisory Committees etc. They also offer consultancy and research support to many national and international organisations.

The Department runs a number of Extension cum Demonstration Projects, all of which enable the faculty and students to hone their skills and learn to integrate theory into practice. Projects like the Centre for Community Development and Action; Centre for Adolescent and Child Well being and Gender Resource Centre have achieved special accolades.

## **SOCIOLOGY**

### **Major Activities and Achievements**

The Department organized the M.N. Srinivas Centenary Celebrations on the 26th of February, 2016 in the Vivekananda Hall, Delhi School of Economics, University of Delhi. A large number of people participated in the celebrations divided over two sessions. Welcome address was given by Prof. Abhijit Dasgupta, Head of the Department of Sociology and Prof. Pami Dua, Director, Delhi School of Economics. A number of distinguished speakers reminisced about their association with Professor Srinivas and reflected on his contribution to the Department and to the discipline of Sociology in India. Prof. T.N. Madan, Institute of Economic Growth (Retd.); Prof. A.M. Shah, Department of Sociology, DU (Retd.); Prof. David Gellner, Oxford University; Prof. Gopal Guru, Centre for Political Studies, JNU; Prof. Rita Brara, Department of Sociology, DU, Senior Fellow (ICSSR); Prof. Roma Chatterji, Department of Sociology, DU; Prof. E.A. Ramaswamy, Independent Scholar and Former Faculty Member, Department of Sociology, DU; Prof. Anand Chakravarti, Department of Sociology, DU (Retd.), Prof. Minoru Mio, Institute of Ethnology, Osaka, Japan and Prof. Savyasachi, Jamia Millia Islamia were the panelists in the two sessions.

### **Honours/Distinctions**

Brara, Rita was awarded Carson Fellowship at the Rachel Carson Center for the Study of Environment and Society at Munich, Germany for three summer months.

Dasgupta, Abhijit visited Ethnological Institute, Munich University, Munich, Germany in July 2015 under the UGC exchange programme.

Patel, Tulsi was a Team leader for a research exchange programme with the University of Göttingen, Germany: Contested avenues of assisted reproductive technologies: A study of transnational transfers and cross-cultural practices (UGC-DAAD 2014-2016). She Visited the University of Göttingen, Germany in Nov.-Dec., 2015.

Sundar, Nandini was awarded the Ester Boserup Prize of 2016.

Thapan, Meenakshi was appointed Co-ordinator, D.S. Kothari Centre for Science, Ethics and Education, University of Delhi in 2012. The centre organises the DS Kothari Memorial Lecture annually, conducts workshops on ethics and education for students and faculty in undergraduate colleges in DU and brings out working papers on a range of themes concerning education, including the work of MA students at the Dept. of Sociology on the basis of the Shivalal Sawhney Scholarship awarded to them annually.

## Publications

- Agrawal, Anuja. (2016). 'Criminal Neglect: Has the Status of Denotified Tribes in India Changed Significantly Post-independence?' *Himal South Asian*.
- Agrawal, Anuja. (2015). 'Gender Contests in the Delhi Metro: Implications of Reservation of a Coach for Women' (co-authored with Aarushi Sharma), *Indian Journal of Gender Studies*, 22:3.
- Agrawal, Anuja. (2015). Suicide of a 'Criminal' or Murder of the Stigmatized? in *Kafila*.
- Agrawal, Anuja. (2015). Who Gets Caught – From Death Row Convicts to 'Criminals by Birth' in *Kafila*.
- Agrawal, Anuja. (2016). Witch-hunting' in India?: Do We Need Special Laws? (co-authored with Madhu Mehra) *Economic & Political Weekly*, vol. II no 13, 51-57.
- Aphun, Kamei. (2016). "Mapping Identity and Ethnic Assertion in North East India: The Case of the Zeliangrong Nagas", in Aphun, Kamei (ed.) *Indomitable Spirit: Rani Gaidinliu (1905-1993)*, New Delhi: ZWAD.
- Aphun, Kamei (ed.). (2016). *Indomitable Spirit: Rani Gaidinliu (1905-1993)*, New Delhi: ZWAD.
- Aphun, Kamei. (2015). National Workshop Proceedings on *North East India Today: Some Reflections*, held on 12<sup>th</sup> March 2015 at the Department of Sociology, Delhi School of Economics, University of Delhi.
- Bardhan, Vikramendra. (2016). "Anthropological Perspective on Disability." *International Journal of Information Research and Review*, vol. 3.
- Brara, Rita. (2016). "Animal Rights vs Bullfights: The Horns of an Indian Dilemma." *Environment & Society Portal, Arcadia*, no. 5. Rachel Carson Center for Environment and Society. <http://www.environmentandsociety.org/node/7426>.
- Chatterji, Roma. (2016). "Repetition, Improvisation, Tradition. Deleuzean Themes in the Folk Art of Bengal." *Cultural Analysis* 15 (1).
- Chatterji, Roma. (2016). "The Experience of Death in a Dutch Nursing Home. On Touching the Other." in Veena Das and Clara Han (eds.) *Living and Dying in the Contemporary World*. Berkeley, University of California Press.
- Chatterji, Roma. (2016). *Speaking with Pictures. Folk Art and the Narrative Imagination in India*. Reprinted.
- Chopra, Radhika. (2016). "Habitus of Trust: Servitude in Colonial India", in Vigdis Broch-Due and Margit Ystanes (eds.) *Trusting and its Tribulations*, New York and Oxford: Berghahn Books, 2016.
- Chopra, Radhika. (2015). 1984 - Disinterred Memories, Sikh Formations. *Religion, Culture, Theory, Special Issue*, 1984, 1-10
- Chopra, Radhika. (2016). Commemorating Hurt: Memorializing Operation Bluestar in Rina Ramdeve et. al (eds) *Sentiment, Politics, Censorship: The State of Hurt*, Sage: New Delhi, 86-109.

- Chopra, Radhika. (2015). Ziddi Munde: Political Asylum, Transnational Movement and the Migrations of Men, in S Irudaya Rajan, V J Varghese and Aswini Kumar Nanda (eds.) *Migrations, Mobility and Multiple Affiliations: Punjabis in a Transnational World*, Cambridge and Cambridge University Press, New Delhi 133-155.
- Dasgupta, Abhijit. (2016). *Displacement and Exile: The State-Refugee Relations in India*, Oxford University Press, New Delhi.
- Deshpande, Satish. (2015). “Loksabha Chunav ke Baad Dedh Saal ka Jayaza”, with Aditya Nigam, Peter DeSouza, Sanjay Kumar and Hilal Ahmed, in *Pratiman: Samay, Samaj, Sanskriti*, Vol.3, n.2, 345-71.
- Deshpande, Satish. (2016). “The Public University after Rohith-Kanhaiya”, in *Economic and Political Weekly*, Vol.51, n.11, 32-34.
- Deshpande, Satish. (Winter 2015—Spring 2016) “Weak Students and Elite Institutions: The Challenges of Democratisation in the Indian University”, in *India International Centre Quarterly*, Special Issue: Education at the Crossroads, 131-42.
- Palriwala, Rajni. (2015). ‘Rationality, Instrumentality, and the Affective: Crossings and Blurrings in Relations of Care and Intimacy’ *Korean Journal of Sociology*, 49 (3).
- Palriwala, Rajni. (2015). “Acts of Omission and Acts of Commission: The Adverse Juvenile Sex Ratio and the Indian State.” in Ravinder Kaur (ed.) *Too Many Men, Too Few Women: Social Consequences of Gender Imbalance in India and China*, Orient Blackswan, Delhi.
- Patel, Tulsi Reddy, Sunita. (2015) “There are many Eggs in my Basket: Medical Markets and Commodified Bodies”, *Global Bioethics*, pp 1-15. (Online Journal).
- Patel, Tulsi. Tenderup, M, Reddy, S and Nielsen, BB (2015) Reproductive Ethics in Commercial Surrogacy: Decision Making in IVF Clinics in New Delhi, India, *Journal of Bioethical Inquiry*.
- Sampat, Preeti. (2015). ‘The Goan Impasse: Land Rights and Resistance to SEZs in Goa.’ *Journal of Peasant Studies*. 42 (3).
- Sawhney, Charu. (2015). ‘Displacement and Cultural Change: The Case of Kashmiri Hindus.’ *The Eastern Anthropologist*, 68 (1).
- Thapan, Meenakshi. (2016). (with Anshu Singh and Nidhitha Sreekumar) Women’s Mobility and Migration. An exploratory study of Muslim women migrants in Jamia Nagar, Delhi, in Deepak K. Mishra (ed.) *Internal Migration in Contemporary India*. SAGE Publications Pvt. Ltd., 47-70.
- Thapan, Meenakshi. (2016). Foreword, War, Memory and Travel in Sasanka Perera. *Warzone Tourism in Sri Lanka. Tales from Darker Places in Paradise*. SAGE Publications. xv-xvii.
- Thapan, Meenakshi.(2016). Being 'Single' and Alone: Tibetan Youth in Exile in India, *Society and Culture in South Asia*. 2 (2), 161–181.



Vasan Sudha. (2016). Consuming the Tiger: Experiencing Neoliberal Nature in Manisha Rao (Ed.) *Reframing the Environment: Resources, Risk and Resistance in Neoliberal India*. Conference Proceedings, Department of Sociology, University of Mumbai. 23-30.

Vasan Sudha. (2016). Shifting the terrain of struggle: Critically evaluating the Forest Rights Act in Meena Radhakrishna (Ed.) *First Citizens: Studies on Tribals, Adivasis and Indigenous Peoples in India*. Oxford University Press, Delhi. Chapter 11.

### **Research Projects**

Aphun, Kamei is involved in the ICSSR sponsored major research project on 'State, Ethnicity and Development: A Study of Ethnic Assertions, Conflicts and Movements in North East India.'

Chatterji, Roma is engaged in a project titled 'Words and Images: Folk Art and the Narrative Imagination' funded by IFA.

Chopra, Radhika is P.I., University of Delhi and University of Bergen Research Project: 'Indian Cosmopolitan Alternatives: Ritual Intersections and the Proscription of Religious Offense'.

Dasgupta, Abhijit is working on an ICSSR Project on 'Muslim Outcastes in Bengal'.

Palriwala, Rajni is working on 'Transformations in Everyday Life and Gender: Life Histories of elder women in India' in collaboration with Kyoto University, Miyagi-gakuin University, Sendai, Niigata International University, Niigata, and Shibaura Institute of Technology, Tokyo.

*Minor Cosmopolitanisms*. International RTG of University of Potsdam, Frei University, Berlin, and Humboldt University with University of New South Wales, Macquarie University, University of Cape Town, University of Pretoria, York University, Duke University and IFLU.

### **Conferences organized**

A Seminar on *Sovereignty, Public Interest and Land Acquisition: Land Acquisition Amendment Bill 2015* was held on April 8, 2015. It was jointly organized by the Departments of Economics, Sociology and Geography. This seminar was an attempt to bring in conversation diverse perspectives around the Land Acquisition Amendment Bill 2015 and the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act 2013. It looked into the questions of sovereignty and public interest in the emergent land acquisition framework.

In collaboration with the Delhi School of Economics, Prof. Meenakshi Thapan organized the Prof. D.S. Kothari Memorial Lecture by Professor Veena Das on 'What Does Ordinary Ethics Look Like? Re-imagining Everyday Life' on July 29, 2015, at the Vivekananda Hall, Delhi School of Economics.

The Third workshop on *Climate change* at the Department of Sociology was held on 20-21 January, 2016. The workshop, in keeping with the pattern of the earlier two workshops organized in 2014 and 2015, provided a platform for exploring theoretical and in-depth issues surrounding climate change from a sociological perspective. Presentations at the workshop were made by faculty, M.Phil. and Ph.D. students. Each session had a discussant from faculty or the wider student body. There were 69 participants including students and scholars from other universities in Delhi, the NCR and international universities.

The workshop was titled 'Did Anyone Cry Anthropocene? Frames from India' as a playful take on the story of the boy who cried wolf. It aimed at investigating the idea of the Anthropocene, a recent concept which signifies the age of human driven planetary change, in the context of frames growing out of experiences in India. The workshop

opened with inaugural remarks from the Head of Department, Prof. Abhijit Dasgupta and a paper by the convener, Prof. Rita Brara, titled ‘What might we mean by the Anthropocene?’

A Research Scholars Workshop was held in the Department on March 10 and 11, 2016. Ten Ph.D. and M.Phil. scholars of our department presented research papers in four panels: Practices of Pedagogy: Scenes from the Everyday; Negotiating Identity: Law, Land and State; Inheriting Community; Children at the Margins. Twenty discussants from faculty and research scholars engaged in depth with the papers, apart from the audience. The workshop also had a Round Table on 'Reflections on Field and Fieldwork', where faculty and senior research scholars led a discussion on this theme.

### **Inter-Institutional Collaboration**

The Department has agreed in principle to sign MOU with Lieden University, The Netherlands and Xiantan University, Hunan, China. As a part of MOU it has been agreed to exchange students, faculty members and organize workshops, seminars and publish books and articles. The MOUs are now being processed by the University of Delhi.

### **No. of M.Phil/Ph.D. Degrees Awarded**

M.Phil.: 24

Ph.D: 08

### **Faculty Strength**

Permanent: 18

## **FACULTY OF MATHEMATICAL SCIENCE**

### **COMPUTER SCIENCE**

#### **Major Activities and Achievements**

Programmes: The Department is running two Master Degree Programme i.e. MCA & M.Sc. Computer Science The Department started three year Master of Computer Applications (MCA) programme in the year 1982 & M.Sc. Computer Science course in the year 2004 with the aim to develop core competence in Computer Science and prepare the students to carry out development work, as well as take up challenges in research.

Research: Besides these the Department has strong research interests in diverse branches of Computer Science (Artificial Intelligence, Parallel Computing, Databases, Data Mining, Software Engineering, Computer Graphics, Networking, Web Technologies, Information Security, Algorithms and Bioinformatics) and offers a Doctor of Philosophy (Ph.D.) Programme aimed at producing quality researchers. At present the department has about 52 Ph.D students and 6 have been awarded degree in the year 2015-16. 23 MSc research projects were undertaken, some of which are in various stages of publications.

Placements: Reputed software companies like Amazon, Blackrock, National Instruments, DirectI, SumoLogic, Morgan Stanley, Nagarro, Thorogood, Accolite, Adobe, Aristocrat participated in campus placement process. Total 83 job offers were received by MCA and MSc students during campus placements. At Least 15 students had more than one job offers. Minimum and maximum salary packages were 4.5 LPA and 20 LPA respectively.

Student Activities: Eleventh Annual Technical Fest “SANKALAN” was organized by the students of the Department of Computer Science. The festival was attended by approx. 400 students of Computer Science from colleges all over India.

#### **Publications**

A total of 24 research papers were published during 2015-2016 by the faculty of the Department.

- Agarwal, M., Agrawal, N., Sharma S., Vig L., & Kumar, N. (2015), Parallel Multi-objective Multi-robot Coalition Formation. *Expert Systems with Applications*, 42(21), 7797-7811. IF 1.965, SJR 1.487
- Bansal A., Muttoo S. K., Kumar V. (2016), "Secure Data Hiding Along Randomly Selected Closed Knight Tour", *International Journal of Applied Security Research*, Taylor & Francis, vol. 11 no. 1, pp. 90-100.
- Bansal A, Muttoo S. K., Kumar V., (2015), "Secure Data hiding by optimal placement of Queen along closed knight tour", *I-manager's Journal of Information Technology*, Vol. 4, no. 3, pp. 18-24
- Bedi, Punam, Chhavi Sharma. (2016). Community Detection in Social Networks, *Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery* 6 ( 3 ): 115 – 135 .
- Bedi, Punam, Pooja Vashisth. Deepak Chandoliya and Bipin Kumar Yadav. (2015). Argumentation Enabled Interest-Based Personalized Recommender System, *Journal of Experimental and Theoretical Artificial Intelligence (JETAI)*, 27(2): 199–226, Taylor and Francis.
- Bedi, Punam and Ravish Sharma. (2015). AbFR: Ant based Friends Recommendation in Social Tagging Systems, *International Journal of Swarm Intelligence*, 1(4): 321-343.
- Chawla, Shailey, Sangeeta Srivastava and Punam Bedi. (2016). Goal and Scenario based Web Requirements Engineering. *International Journal of Computer Systems Science & Engineering*, 31(1), January 2016.
- Chawla, Shailey, Sangeeta Srivastava and Punam Bedi. (2015). Improving the quality of web applications with web specific goal driven requirements engineering, *International Journal of System Assurance Engineering and Management*, Vol. 6: pp. 1-13, Springer.
- Chawla, Shailey, Sangeeta Srivastava and Punam Bedi. (2015). A Qualitative Forward Reasoning Approach for Evaluation of WebGRL Diagrams, *Journal of Information and Systems Management*, 5(1):1-15.
- Gupta, S., Khatri, B., Gupta, T., & Kumar, N. (2015),. Modified Partition Integration Method for Community Detection in Multidimensional Social Networks. In *International Conference on Natural Computation (ICNC)*.
- Hans, H., Ahuja L. and Muttoo, S.K. (2016), 'A Fuzzy Logic Approach for Detecting Redirection Spam', *Int. J. Electronic Security and Digital Forensics*,
- Jindal, Vinita, Punam Bedi. (2016). Vehicular Ad-Hoc Networks- Introduction, Standards, Routing Protocols and Challenges. *International Journal of Computer Science Issues (IJCSI)*. 13(2): 44-55, 2016,
- Jindal, Vinita, Punam Bedi. (2016). Reducing travel time in VANETs using MACO with CUDA on GPU, *Journal of Network and Innovative Computing (JNIC)*. 4(1): 200-208, 2016.
- Khalid Alhamazani, Rajiv Ranjan, Karan Mitra, Fethi A. Rabhi, Prem Prakash Jayaraman, Samee Ullah Khan, Adnene Guabtni, Vasudha Bhatnagar, (2015), An overview of the commercial cloud monitoring tools: research dimensions, design issues, and state-of-the-art. *Computing* 97(4): 357-377.
- M Bhardwaj, V Bhatnagar, (2015), Towards an optimally pruned classifier ensemble, *International Journal of Machine Learning and Cybernetics*, Volume 6, Issue 5, pp 699-718.

Mahinder Pal Singh Bhatia, Manjot Bhatia, Sunil Kumar Muttoo: (2015), Secure Group Message Transfer Stegosystem, *IJISP* 9(4): 59-76.

Manju Bhardwaj, Kapil Sharma, Vasudha Bhatnagar, (2016) Cost effectiveness of Classification Ensembles, *Pattern Recognition*.

Preeti Nagrath, Sandhya Aneja, Neelima Gupta and Sanjay Madria. (2015), "Protocols for Mitigating Blackhole Attacks in Delay Tolerant Networks." *Springer journal on Wireless Networks*, DOI 10.1007/s11276-015-0959-3.

P. Mansouri, B. Asady, N. Gupta. (2015), "The Bisection Artificial Bee Colony algorithm to solve Fixed point problems", *Elsevier Journal of Applied Soft Computing*. (Impact Factor 2.679), 26, pp: 143-148.

Preeti Nagrath, Sandhya Aneja, Neelima Gupta and Sanjay Madria. (2015). "Protocols for Mitigating Blackhole Attacks in Delay Tolerant Networks." *Springer journal on Wireless Networks*, DOI 10.1007/s11276-015-0959-3.

Rahul Johari, Neelima Gupta, Sandhya Aneja. (2015), "CONCOR: context-aware community-oriented routing for intermittently connected network." *EURASIP Journal on Wireless Communications and Networking*, DOI 10.1186/s13638-015-0357-7.

Rajan Gupta Sunil Kumar Muttoo Saibal K. Pal (2016), Implementation & Analysis of Integrated Utility System in Developing Nation like India, *iJES* 4(2): 11-17.

Sharma, Neeraj Kumar , Vibha Gaur, Punam Bedi. (2016). Safeguarding Buyers with Attack-Resilient Reputation Parameters. *Journal of Theoretical and Applied Electronic Commerce Research (JTAER)*, 11(1): 46-66.

Vasudha Bhatnagar, Sangeeta Ahuja, Sharanjit Kaur, (2015), Discriminant Analysis based Cluster Ensemble, *International Journal for Data Mining, Modeling and Management* 7(2): 83-107.

## **Research Projects**

Dr. Punam Bedi, UGC Projects, 2013-2016 entitled "Trustworthy Pro-active Recommender System" Rs. 13.38 Lacs.

Dr. Punam Bedi, Joint Principal Investigator Department of Computer Science along with Dr. P.C. Jha Principal Investigator Department of Operational Research, University of Delhi, DST (DU-DST PURSE grant) Projects, 2014-2018 entitled "Soft Computing Approach to Multi-Criteria Optimization Models for Component Selection in Designing Fault Tolerant Software Systems" Rs. 6.12 Lacs.

Dr. Punam Bedi, R & D Grant from University of Delhi, 2015-16 entitled "Feature Selection for image Steganalysis" Rs. 1.50 Lacs.

Dr. Neelima Gupta, R & D Grant from University of Delhi, 2015-16 entitled "Approximation Algorithms for variants of Facility Location Problem" Rs. 1.50 Lacs.

Prof. Vasudha Bhatnagar, R & D Grant from University of Delhi, 2015-16 entitled "Analysis of Biological and Social Networks" Rs. 1.50 Lacs.

Dr. S.K. Muttoo, R & D Grant from University of Delhi, 2015-16 entitled "Android malware detection" Rs. 1.40 Lacs.

Dr. Naveen Kumar, R & D Grant from University of Delhi, 2015-16 entitled “Network analysis” Rs. 1.50 Lacs.

### **Conferences Organized**

One day workshop on Graph Analytics, Department of CS, University of Delhi, Delhi, Apr 2015.

Big Data Analytics (BDA) 4th International Conference, Hyderabad, India, December 2015.

### **Conference Presentations**

Dr. S.K.Muttoo: “Information Security”, International Conference on Innovation & Challenges in Cyber Security, Feb. 3 to 5-2016, Amity University, Noida.

“Information Security”, National Workshop on Advance Techniques in Mathematics Physics & Computer Science, Feb.18 to 20, 2016, SRM University.

Dr. Naveen Kumar “Research Methodology”, Ch. Ranbir Singh University, 2015, 22 Jul 2015, Jaypee University, Noida.

Dr. Neelima Gupta: Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2015): 35th IARCS Annual Conference, Indian Institute of Science, Bangalore. December 2015.

Prof. Vasudha Bhatnagar

“Social Network analysis: Introduction to social Theories” National Seminar on Big Data: Issues & Challenges, 16th October, 2015, GIBS, Rohini, Delhi.,

“Social Theories for Networks Analysis”, Workshop on " Data Analytics and Security Issues" , Friday, 4th December 2015, Jaypee University, Noida.

“Social Network Analysis – An introduction”, at National Conference on Recent Statistical Computing Techniques and their Applications, 11 Mar 2016, Ramanujan College, University of Delhi

### **Inter-Institutional Collaboration**

- i. University of Aizu, Japan
- ii. Epitech, European Institute of Information Technology (Le Kremlin Bicetre, France)

### **M.Phil./ Ph.D. degrees awarded**

Ph.D. Awarded: 6

**Faculty Strength:** Permanent: 6 ; Ad-hoc: 6

### **Other Significant Information**

During the annual festival a drive for donating clothes was launched. The collected clothes were handed over to NGO Goonj.

Students of the Department of Computer Science launched the fifth edition of the magazine 'SRIJAN' both online and in print in the 11<sup>th</sup> year of Sankalan.

## MATHEMATICS

### Major Activities and Achievements

Department offers M.A./M.Sc. program and M. Phil/Ph.D. program in Mathematics. Total number of students in M.A./M.Sc. program is 550, in M.Phil. Programme is 23 and in Ph. D. Programme is 115. The Department is supported by UGC-DSA, DST-PURSE and DST-FIST grants. Department was ranked 301-400 in QS World University Rankings 2016. The faculty members have more than 43 publications in journals of international repute during 2015-16. Some faculty members hold administrative positions of the university such as:

- Prof. Dinesh Singh, Vice-Chancellor till October 2015;
- Prof. Tarun Das, Registrar since February, 2015
- Prof. Ajay Kumar, Dean Research (PS & MS)

Few faculty members are associated with professional societies and grant agencies. Several faculty has been on Advisory committee of Special Assistance Programme of UGC of different universities; and experts on several committees of UGC, DST and CSIR. Apart from regular teaching and research, the Department organizes regular seminars, workshops and seminars. During 2015-16, the department organized two international conferences, one international workshop, one national workshop and 17 seminars.

### Honours/ Distinctions

Prof. Tarun Das was elected as Sectional President (Mathematical Sciences including Statistics) of Indian Science Congress Association, 2016-17. Prof. Dinesh Singh, Prof. B. K. Dass and Prof. Ajay Kumar were former Sectional President of Indian Science Congress.

Prof. Tarun Das was appointed as Chief Vigilance Officer on May, 2015.

Prof. B. K. Dass was appointed as Dean, Faculty of Technology in May, 2016.

### Publications

A total of 43 research papers were published during 2015-2016 by the faculty of the Department. List of publications is as follows:

Ali, R.M., Mondal, S.R., & Ravichandran, V. (2015). On the Janowski convexity and starlikeness of the confluent hypergeometric function. *Bulletin of the Belgian Mathematical Society - Simon Stevin*, 22(2), 227–250.

Bansal, A., & Kumar, A. (2015). Generalized analogs of the Heisenberg uncertainty inequality. *J. Inequalities and Applications*, 2015(168), 15 pages.

Bansal, A., & Kumar, A. (2016). Heisenberg uncertainty inequality for Gabor transform. *Journal of Mathematical Inequalities*, 10(3), 737-749.

Bhat, B.V.R., & Srivastava, S. (2015). Stability of quantum dynamical semigroups. *Operator Theory: Advances and Applications*, 250, 67-85.

C.J.K., Chill, R., & Srivastava, S. (2015). Maximal regularity for some interpolation spaces for second-order cauchy problems. *Operator Theory: Advances and Applications*, 250, 49-66.

- Charita, C., Dutta, J., & Lalitha, C.S. (2015). Gap functions for vector variational inequalities. *Optimization*, 64(7), 1499-1520.
- Chhabra, A., Dass, B.K., & Mehta, S. (2016). Multi-stage optional unrelated question RRT model. *Journal of Statistical Theory and Applications*, 15(1), 80-95.
- Chugh, R., Singh, M., & Vashisht, L.K. (2015). Shadow of operators on frames. *TWMS Journal of Applied and Engineering Mathematics*, 5(1), 132-144.
- Dass, B.K., Sharma, N., & Verma, R. (2015). The packing radius of a poset block code. *Discrete Mathematics, Algorithms and Applications*, 7(4), 1550045 (10 pages).
- Deepshikha, & Vashisht, L. K. (2015). On perturbation of local atoms for subspaces. *Poincare Journal of Analysis and Applications*, 2015(2), 129-137.
- Dubey, S., Kumar, A., & Mishra, M.M. (2015). Green's function for a slice of the Korányi ball in the heisenberg group  $H_n$ . *International Journal of Mathematics and Mathematical Sciences*, 2015, 460461(7 pp).
- Dubey, S., Kumar, A., & Mishra, M.M. (2016). Neumann boundary value problem in domains of the heisenberg group  $H_n$ . *Potential Analysis*, 45, 119-133.
- Garg, Saakshi, & Vashisht, L.K. (2015). On exact frames in topological algebras. *Palestine Journal of Mathematics*, 5(1), 131-134.
- Gaur, A., & Sharma, A. (2015). Line graphs associated to the maximal grp. *Journal of Algebra and Related Topics*, 3(1), 1-11.
- Kalucha, G., Gupta, S., & Dass, B.K. (2015). Ratio estimation of finite population mean using optional randomized response models. *Journal of Statistical Theory and Practice*, 9(3), 633-645.
- Kaur, J., & Singh, H.K. (2015). On the existence of free action of  $S_3$  on certain finitistic mod  $P$  cohomology spaces. *Journal of the Indian Mathematical Society*, 82(3-4), 97-106.
- Kaur, J., Singh, H.K., & Singh, T.B. (2016). Circle group action on the product of two projective spaces. *Topology Proceedings*, 48, 163-172.
- Khattar, G., & Vashisht, L.K. (2015). Some types of convergence related to the reconstruction property in banach spaces. *Banach Journal of Mathematical Analysis*, 9(2), 253-275.
- Kumar, S. (2016). Mild solution and fractional optimal control of semilinear system with fixed delay. *Journal of Optimization Theory and Applications*, DOI: 10.1007/s10957-015-0828-3.
- Kumar, S., Nagpal, S., & Ravichandran, V. (2016). Coefficient inequalities for janowski starlikeness. *Proceedings of the Jangjeon Mathematical Society*, 19(1), 83-100.
- Lalitha, C.S., & Chatterjee, P. (2015). Scalarization of Levitin-Polyak well-posedness in vector optimization problems using weak efficiency. *Optimization Letters*, 9(2), 329-343.
- Lalitha, C.S., & Chatterjee, P. (2015). Stability and scalarization in vector optimization using improvement sets. *Journal of Optimization Theory and Applications*, 166(3), 825-843.

- Lalitha, C.S., & Dhingra, M. (2016). Well-setness and scalarization in set optimization. *Optimization Letters*, DOI: 10.1007/s11590-015-0942-z.
- Lee, S.K., Ravichandran, V., & Supramaniam, S. (2015). Close-to-convexity and starlikeness of analytic functions. *Tamkang Journal of Mathematics*, 46(2), 111–119.
- Mendiratta, R., Nagpal, S., & Ravichandran, V. (2015). On a subclass of strongly starlike functions associated with exponential function. *Bulletin of the Malaysian Mathematical Sciences Society*, 38(1), 365–386.
- Mendiratta, R., Nagpal, S., & Ravichandran, V. (2015). Radii of starlikeness and convexity for analytic functions with fixed second coefficient satisfying certain coefficient inequalities. *Kyungpook Mathematical Journal*, 55(2), 395–410.
- Mendiratta, R., Nagpal, S., & Ravichandran, V. (2015). Second-order differential superordination for analytic functions with fixed initial coefficient. *Southeast Asian Bulletin of Mathematics*, 39(6), 851–864.
- Nagpal, S., & Ravichandran, V. (2015). Convolution properties of the harmonic koebe function and its connection with 2-starlike mappings. *Complex Variables and Elliptic Equations*, 60(2), 191–210.
- Rai, P., & Sharma, K.K. (2015). Singularly perturbed convection-diffusion turning point problem with shifts. *Mathematical Analysis and Its Applications, Springer Proceedings in Mathematics and Statistics*, 143, 381–391.
- Rai, P., & Sharma, K.K. (2015). Singularly perturbed parabolic differential equations with turning point and retarded arguments. *IAENG International Journal of Applied Mathematics*, 45(4), 404–409.
- Rajpal, V., Kumar, A., & Itoh, T. (2015). Schur tensor product of operator spaces. *Forum Mathematicum*, 27(6), 3635–3655.
- Ravichandran, V., & Sharma, K. (2015). Sufficient conditions for starlikeness. *Journal of the Korean Mathematical Society*, 52(4), 727–749.
- Ravichandran, V., & Verma, S. (2015). Bound for the fifth coefficient of certain starlike functions. *Comptes Rendus Mathematique*, 353(6), 505–510.
- Sahni, N., & Singh, D. (2015). Lax-Halmos type theorems of  $H_p$  spaces. *Houston Journal of Mathematics*, 41(2), 571–587.
- Shah, S., & Das, R. (2015). A note on chaos for ZD-action. *Dynamics of Continuous, Discrete and Impulsive Systems Series A: Mathematical Analysis*, 22(2), 95–103.
- Sharma, K., & Ravichandran, V. (2016). Sufficient conditions for janowskistarlike functions. *Studia Universitatis Babeş-Bolyai Mathematica*, 61(1), 63–76.
- Sharma, S.K., Zothansanga, A., & Kaushik, S.K. (2015). Corrigendum: On approximative frames in hilbert spaces. *Palestine Journal of Mathematics*, 5(1), 191–191.
- Singh, R., & Jena, J. (2015). One dimensional steepening of waves in non-ideal relaxing gas. *International Journal of Non-linear Mechanics*, 77, 158–161.
- Singh, R., & Jena, J. (2016). Evolution of weak waves and central expansion waves in a non-ideal relaxing gas. *Ain Shams Engineering Journal*, 7(1), 409–413.



Talwar, J., & Mohanty, R.K. (2015). Coupled reduced alternating group explicit algorithm for third order cubic spline method on a non-uniform mesh for nonlinear singular two-point boundary value problems. *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences*, 85(1), 71–81.

Thakkar, D., & Das, R. (2015). Some properties of chain recurrent sets in a nonautonomous discrete dynamical system. *Advances in Pure and Applied Mathematics*, 6(3), 173–178.

Virender, & Zothansanga, A. (2015). A note on feichtinger conjecture. *Southeast Asian Bulletin of Mathematics*, 39(5), 727–733.

Zothansanga, A. & Panwar, S. (2015). Some results concerning system of modulates for  $L_2(\mathbb{R})$ . *Journal of Applied Functional Analysis*, 10(1-2), 13–18.

### **Research Projects**

Prof. Ruchi Das, UGC Major Research Project, 2013-17 entitled “On Dynamical Properties and Chaotic Behavior of Maps”, Rs. 10.5 Lakh.

Prof. Ajay Kumar, Research and Development Scheme from University of Delhi, 2015-16 entitled “Uncertainty Principles and Boundary Value Problems”, Rs. 1.5 Lakh.

Prof. C. S. Lalitha, Research and Development Scheme from University of Delhi, 2015-16 entitled “Scalarization in Set-Valued Optimization”, Rs. 1.3 Lakh.

Dr. Sachi Srivastava, DST Fast Track, 2014-17 entitled “Semigroups on Non-Commutative  $L_p$  Spaces”, Rs. 12.3 Lakh.

Dr. Lalit Kumar, Research and Development Scheme from University of Delhi, 2015-16 entitled “Weaving Frames”, Rs. 1.3 Lakh.

Dr. Arvind Patel, Research and Development Scheme from University of Delhi, 2015-16 entitled “A Study of Recent Analytic Method and Their Application in Solution of Fluid Flow Problems”, Rs. 1.3 Lakh.

Dr. Atul Gaur, Research and Development Scheme from University of Delhi, 2015-16 entitled “Hamiltonian Property of Maximal Graphs and Chromatic Number of its Line Graph”, Rs. 1.3 Lakh.

Dr. Hemant Kumar Singh, Research and Development Scheme from University of Delhi, 2015-16 entitled “Indexes of a Finitistic Space with  $\text{Mod} 2$  Cohomology  $\mathbb{R}p^m \times S$ ”, Rs. 1.4 Lakh.

Dr. Anuj Bishnoi, Research and Development Scheme from University of Delhi, 2015-16 entitled “On Saturated Distinguished Chains and Okutsu Frames”, Rs. 1.4 Lakh.

Dr. Surendra Kumar, Research and Development Scheme from University of Delhi, 2015-16 entitled “Controllability of Fractional Semilinear Delay Systems”, Rs. 1.4 Lakh.

Dr. Ranjana Jain, Research and Development Scheme from University of Delhi, 2015-16 entitled “Closed Lie Ideals for Tensor Product of Von Neumann Algebras”, Rs. 0.6 Lakh.

Dr. Randheer Singh, Research and Development Scheme from University of Delhi, 2015-16 entitled “Nonlinear Wave Propagation in Non-Ideal Relaxing Gases”, Rs. 1.35 Lakh.

## Conferences Organized

Seminar on “The Fundamental Theorem of Algebra and Abhyankar’s High School Algebra” by Prof. H. Edwards, Emeritus Professor, Courant Institute of Mathematical Sciences, New York held on May 13, 2015.

Seminar on “Products of Idempotent Matrices” by Prof. Avinash Sathaye, University of Kentucky, USA held on May 18, 2015.

Seminar on “Interaction with Faculty and Students” by Prof. Wieslaw Krawcewicz, University of Texas at Dallas held on July 3, 2015.

Seminar on “Polynomial Decay of Some Thermoelastic Systems: Theoretical and Numerical Study” by Dr. S. Nafiri, FSSM, Marrekesh, Morocco, held on July 23, 2015.

Seminar on “Quantum Coherence and its Applications” by Prof. Gerardo Adesso, School of Mathematical Sciences, University of Nottingham held on December 14, 2015.

Seminar on “London on Evolving Populations of mtDNA Inside Cells and Organs” by Dr. Nick S. Jones, Imperial College, held on December 16, 2015.

*Seminar on “Classical Mechanics: from Newton to Jacobi, via Hamilton - a Journey in Geometrisatio” by Prof. K.B. Sinha, JNCASR held on February 12, 2016.*

*Seminar on “Making Mathematics in India” by Prof. M. S. Raghunathan, IIT Mumbai, held on February 29, 2016.*

*Seminar on “Modern Approaches to the Invariant Subspaces Problem” by Prof. Isabelle Chalendar, Institut Camille Jordan, University of Lyon held on March 15, 2016.*

*Seminar on “Asymptotics of Semigroups” by Prof. Wolfgang Arendt, University of Ulm, held on March 21, 2016.*

Workshop on “Indian Women and Mathematics”, supported by NBHM held during April 2-4, 2015.

Workshop on “Compact Course on Non-Commutative Spaces”, supported by NBHM held during September 17-26, 2015.

International Workshop on “Operator Spaces”, supported by NBHM and UGC-SAP held during December 7-9, 2015.

14<sup>th</sup> Discussion Meet on “Harmonic Analysis”, supported by NBHM and UGC-SAP held during December 10-12, 2015.

International Conference on “Recent Advances in Optimization Theory and Applications (RAOTA)”, jointly organised with Mathematical Programming Group, Delhi and Department of Operational Research, University of Delhi, supported by UGC-SAP held during January 30-31, 2016.

## Conference Presentations

C. S. Lalitha

Invited talk at International Conference on Recent Advances in Mathematical Biology, Analysis and Applications on “Well-Posedness in Set Optimization” held at Aligarh Muslim University during June 4-6, 2015.

Invited talk at National Conference on Analysis and Applications on “Set-Criterion for Set-Valued Problems” held at Banaras Hindu University during February 5-7, 2016.

Invited talk at State Level Seminar on Mathematics and its Applications on “Mathematics of Tomography” held at Kamla Nehru College, University of Delhi on March 4, 2016.

Sachi Srivastava

Invited talk at Conference on Advanced Foundation School on “Functional Analysis” held at Shiv Nadar University, U.P. in May, 2015.

Invited Speaker in “Pure Mathematics Seminar” held at Department of Mathematics, University of Newcastle, U.K. in June, 2015.

Invited Speaker in “Pure Mathematics Colloquium” held at Lancaster University, U.K. in June, 2015.

Invited Speaker in “Analysis Seminar” held at Leeds University, U.K. in June, 2015.

Invited Speaker in “Functional Analysis Seminar” held at Oxford University, UK. in June, 2015.

Atul Gaur

Presented paper on “Diameter of Line Graph associated to a Maximal Graph of a Ring” in the International Conference on Mathematics 2015 held at Department of Mathematics, University of Kerala, Thiruvananthapuram (Trivandrum), Kerala during November 26-28, 2015.

Presented paper on “A Survey on Line Graphs of various Graphs associated to a Ring” in the National Conference on Analysis, Differential Equations and Applications held at Department of Maths. & Stats,

M L Sukhadia University, Udaipur, Rajasthan during February 25-27, 2016.

Hemant Kumar Singh delivered talk “On  $S^0$ ,  $S^1$  and  $S^3$  Actions on Spheres, Projective spaces, Lens Spaces and Spaces of Type (a,b)” held at the 30<sup>th</sup> Annual Conference of Ramanujan Mathematical Society at Indian Institute of Science Education and Research, Mohali during May 15-17, 2015.

Randheer Singh presented paper “On propagation of jump in weak discontinuity in van der Waals gases with relaxation” in 60th congress of Indian Society of Theoretical and Applied Mechanics (ISTAM) held at MNIT Jaipur, India during December 17-19, 2015.

Surendra Kumar delivered talk on “Solvability and Controllability of Semilinear Delayed Systems with Nonlinear Control” held at the International Conference on Recent Advances in Optimization Theory and Applications (RAOTA) during January 30–31, 2016.

### **Inter-Institutional Collaboration**

*Prof. Ali Baklouti, University of Sfax, Tunisie*

*Prof. G. B. Folland, University of Washington, U. S. A.*

*Prof. Takashi Itoh, University of Gunma, Japan*

*Prof. Christian Le Merdy, University of Franche Comte, France*

*Prof. Krzysztof Stempak, PolitechnikaWroclawska, Wroclaw.*

### **M. Phil./Ph. D Degrees Awarded**

M.Phil. Awarded: 9

Ph. D. Awarded: 15

### **Faculty Strength**

Permanent: 24

### **Other Significant Information**

The Department has its own placement cell called Ananya – The Placement Cell. The cell has its own website <http://placement.maths.du.ac.in/>. It has been created for the placements of students pursuing M.A. / M.Sc. in Mathematics from the University of Delhi. The Placement Cell provides a platform for the students to meet and interact with corporate organizations and business houses. Since its inception in 2012 more than 35 students have been placed. The Department also runs its own website [maths.du.ac.in](http://maths.du.ac.in). The information about the department people, research students, courses run by the department, syllabus, seminars and other events are regularly updated on the website.

## **OPERATIONAL RESEARCH**

### **Major Activities and Achievements**

During the last 50 years Department of Operational Research has established itself as a leading centre for education and research in the area of optimization and data analytics. To ensure a holistic development of the students, apart from regular teaching and research, the department organizes a wide range of scholarly activities every year as mention below.

**AURORA** (Acknowledgement of the Universal Rendezvous of Operational Research and its Applications): It is the Annual Academic Festival of the Department. Designed to celebrate, spread and expand the tool that is Operational Research, the festival is a flurry of activity ranging from Guest Lectures by eminent scholars and professionals to student-centric events like Quizzes, Problem solving, Presentation of Case Studies etc.

**Industrial Visit:** Every year, the Department organizes a week-long Industrial Visit to a cluster of towns/villages of the country. These trips are aimed at providing the students a firsthand experience of industrial processes and functioning in order to acquaint them with a practical knowledge of the subject and help convert their classroom woes into cries of curiosity.

**Group Discussions:** The Department organizes periodic group discussions in which an array of topics such as latest developments in the corporate world, current affairs, abstract ideas etc. are put forward for discussion. These assist the students in not just preparing for their placement procedures but also for helping them overcome speech problems if any.

**Workshops/Conferences/Seminars:** The Department on regular basis organizes both student oriented and research oriented workshops/conferences/seminars. The aim is to bring together the academicians and practitioners for sharing their knowledge and expertise with the students to enrich them about the subject. During 2015-16, the department organized two international conferences and one workshop.

Apart from teaching and research, the faculty members are actively involved in editorial work with reputed journals. Prof. Pankaj Gupta is serving as Associate Editor with Information Sciences (Elsevier), IEEE Transactions on Fuzzy Systems (IEEE Computational Intelligent Society). He has also served as Guest Editor for special issues from Annals of Operations Research (Springer), Optimization (Taylor and Francis).

### **Honours/Distinctions**

Dr. Adarsh Anand

Conferred with International Research Excellence Award for Contributions as Young Promising Researcher in field of Innovation Diffusion Modeling in Marketing in the 7th International Conference on Quality, Reliability, Infocom Technology and Business Operations during December 28-30, 2015.

Certified with Best Paper Award under the track General Management in International Management Conference on Business and Economy: Growth, Governance and Globalization organized by Fortune Institute of International Business, New Delhi, on March 5, 2016.

Dr. Mukesh Kumar Mehlawat, Start-up-Grant Recipient, Faculty Research Promotion Schemes, University Grants Commission, New Delhi.

### **Publications**

A total of 27 research papers were published in journals of international repute during 2015-2016 by the faculty members of the department. List of publications is as follows:

Agarwal, M., Anand, A., & Aggrawal, D. (2015). Profit determination based on infusion and diffusion process: a sequential approach. *Communications in Dependability and Quality Management*, 18(4), 111-119.

Aggarwal, K.K., & Tyagi, A.K. (2015). Joint replenishment and credit policies under two levels of trade credit financing when demand and bad-debt loss depends upon credit period. *Yugoslav Journal of Operational Research*, DOI: 10.2298/YJOR140412003A.

Aggarwal, K.K., & Tyagi, A.K. (2015). A model for coordinating and joint optimization of inventory and credit policies in an inventory system with date-terms credit linked demand. *International Journal of Operational Research*, 22(1), 65-90.

Anand, A., Agarwal, M., Tamura, Y., & Yamada, S. (2016). Economic impact of software patching and optimal release scheduling. *Quality and Reliability Engineering International*, DOI: 10.1002/QRE.1997.

Anand, A., Aggarwal, R., Singh, O., & Aggrawal, D. (2016). Understanding diffusion process in the context of product disadoption. *Theoretical Bases of Economics and Management*, 240(2), 7-18.

Anand, A., Deepika, & Singh, O. (2016). Incorporating features enhancement archetype in software reliability growth modeling and optimal release time determination. *International Journal of Computer Applications*, 139(4), 1-6.

Anand, A., Singh, O., & Das, S. (2015). Fault severity based multi up-gradation modeling considering testing and operational profile. *International Journal of Computer Applications*, 124(4), 9-15.

Das, S., Anand, A., Singh, O., & Singh, J. (2015). Influence of patching on optimal planning for software release and testing time. *Communications in Dependability and Quality Management*, 18(4), 81-92.

- Garg, K., Kannan, D., Diabat, A., & Jha, P.C. (2015). A multi-criteria optimization approach to manage environmental issues in closed loop supply chain network design. *Journal of Cleaner Production*, 100, 297-314.
- Gupta, V., Dharmaraja, S., & Arunachalam, V. (2015). Stochastic modelling for delay analysis of a VoIP Network. *Annals of Operations Research*, 233, 171-180.
- Jaggi, C.K., Pareek, S., Khanna, A., & Singhal, N. (2016). Optimal replenishment policy for fuzzy inventory model with deteriorating items and allowable shortages under inflationary conditions. *Yugoslav Journal of Operations Research*, DOI: 10.2298/YJOR150202002Y.
- Jaggi, C.K., Sharma, A., & Tiwari, S. (2015). Credit financing in economic ordering policies for non-instantaneous deteriorating items with price dependent demand under permissible delay in payments: a new approach. *International Journal of Industrial Engineering Computations*, 6(4), 481-502.
- Jaggi, C.K., Tiwari, S., & Shafi, A. (2015). Effect of deterioration on two-warehouse inventory model with imperfect quality. *Computers & Industrial Engineering*, 88, 378-385.
- Jaggi, C.K., Verma, P., & Gupta, M. (2015). An inventory model for deteriorating items with two levels of storage and displayed stock-dependent demand rate. *International Journal of Advance Research in Science and Engineering*, 4(2), 469-481.
- Jaggi, C.K., Yadavalli, V.S.S., Sharma, A., & Tiwari, S. (2016). A fuzzy EOQ model with allowable shortage under different trade credit terms. *Applied Mathematics & Information Sciences*, 10(2), 785-805.
- Jaggi, C.K., Khanna, A., & Nidhi, N. (2016). Effects of inflation and time value of money on an inventory system with deteriorating items and partially backlogged shortages. *International Journal of Industrial Engineering Computations*, 7(2), 267-282.
- Jha, P.C., Aggarwal, S., & Gupta, A. (2015). Optimal duration of promotion for a durable technology product in a segmented market. *Accepted in Journal of Promotion Management*.
- Jha, P.C., Aggarwal, S., Gupta, A., & Sarker, R. (2016). Multi-criteria media mix decision model for advertising a single product with segment specific and mass media. *Journal of Industrial and Management Optimization*, 12(4), 1367-1389.
- Khanna, A., Mittal, M., Gautam, P., & Jaggi, C. (2016). Credit financing for deteriorating imperfect quality items with allowable shortages. *Decision Science Letters*, 5(1), 45-60.
- Kumar, K. (2016). Association rule mining to understand customer purchase behavior in a supermarket. In A.K. Sinha, A. Pandey, A.K. Mohapatra, & Utkarsh (Eds.), *Emerging trends in management and public policy* (pp. 156-174). New Delhi, Delhi: Regal Publications.
- Manik, P., Gupta, A., Jha, P.C., & Govindan, K. (2015). A goal programming model for selection and scheduling of advertisements on online news media. *Asia-Pacific Journal of Operational Research*, 33(2), 1650012 (41 pages).
- Mehlawat, M.K., & Gupta, P. (2015). COTS products selection using fuzzy chance-constrained multiobjective programming. *Applied Intelligence*, 43(4), 732-751.
- Mehlawat, M.K., & Gupta, P. (2016). A new fuzzy group multi-criteria decision making method with an application to the critical path selection. *International Journal of Advanced Manufacturing Technology*, 83(5), 1281-1296.

Srivastava, P.W., & Gupta, T. (2015). Optimum time-censored modified ramp-stress alt for the burr type XII distribution with warranty: a goal programming approach. *International Journal of Reliability, Quality, and Safety Engineering*, 22(3), 1550012 (23 pages).

Srivastava, P.W., & Gupta, T. (2016). A time-censored zero failure alt plan under triangular cyclic-stress loading. *International Journal of Performability Engineering*, 12(2), 121-130.

Srivastava, P.W., & Manisha. (2015). Optimum step-stress PADT plan using wiener process. *International Journal of Performability Engineering*, 11(5), 443-452.

Tiwari, S., Cárdenas-Barrón, L.E., Khanna, A., & Jaggi, C.K. (2016). Impact of trade credit and inflation on retailers ordering policies for non-instantaneous deteriorating items in a two-warehouse environment. *International Journal of Production Economics*, 176, 154-169.

### **Research Projects**

DST-PURSE Phase-II Grant from University of Delhi, 2014-2018, Rs. 25 Lakh.

Prof. P.C. Jha, Research and Development Scheme from University of Delhi, 2015-2016 entitled “Sustainable Supply Chain Management”, Rs. 1.5 Lakh.

Prof. Chandra K Jaggi, Research and Development Scheme from University of Delhi, 2015-2016 entitled “Warehousing Problems under Realistic Situations”, Rs. 1.5 Lakh.

Prof. Pankaj Gupta, Research and Development Scheme from University of Delhi, 2015-2016 entitled “Multi-Criteria Optimization Modeling for Component Selection in the Component-Based Software Development under Uncertainty”, Rs. 1.5 Lakh.

Prof. Anu Gupta Aggarwal, Research and Development Scheme from University of Delhi, 2015-2016 entitled “On Development of Change Point Based Multi Release Software Reliability Growth Models”, Rs. 1.0 Lakh.

Dr. Ompal Singh, Research and Development Scheme from University of Delhi, 2015-2016 entitled “Optimal Testing Stop Time & Warranty Length for Software”, Rs. 1.3 Lakh.

Dr. Vandana Khaitan, Research and Development Scheme from University of Delhi, 2015-2016 entitled “Analytical Dependability Analysis of Future Generation Wireless Network”, Rs. 1.3 Lakh.

Dr. Aditi Khanna, Research and Development Scheme from University of Delhi, 2015-2016 entitled “Strategic Inventory Modeling for Imperfect Quality Items with Inspection Errors”, Rs. 1.4 Lakh.

Dr. Mukesh Kumar Mehlawat, Research and Development Scheme from University of Delhi, 2015-2016 entitled “Fuzzy Hybrid Optimization Framework for Resource Planning Problems”, Rs. 1.5 Lakh.

Dr. Mukesh Kumar Mehlawat, Major Research Project from UGC, 2015-2017 entitled “Hybrid Multi Criteria Optimization Models for Fuzzy Portfolio Selection”, Rs. 6 Lakh.

Dr. Adarsh Anand, Research and Development Scheme from University of Delhi, 2015-2016 entitled “Software Patching and Optimal Release Planning”, Rs. 1.3 Lakh.

## **Conferences Organised**

National Workshop on “Business Analytics and Intelligence: Industry-Academia Interaction” held at University of Delhi, Delhi during March 4-5, 2016.

International Conference on “Recent Advances in Optimization Theory and Applications - 2016” jointly organised with Mathematical Programming Group, Delhi and Department of Mathematics, University of Delhi held at University of Delhi, Delhi during January 30-31, 2016.

7th International Conference on “Quality, Reliability and Information Technology and Business Operations” held at University of Delhi, Delhi during December 28-30, 2015.

## **Conference Presentations**

Prof. (Dr.) Prakash C. Jha

Delivered talk in “Advances in Mathematics, Statistics and Computer Science” held at Central University of South Bihar, Patna during May 29-31, 2015.

Delivered talk in the “Fifth International Conference on Soft Computing for Problem Solving” held during December 18-20, 2015.

Delivered talk in the “National Conference on Analysis and Applications” held at Department of Mathematics, Institute of Science, Banaras Hindu University, Varanasi during February 5-7, 2016.

Delivered talk in the “18th Annual National Conference of Society of Statistics, Computer and Applications” held at Department of Statistics, University of Jammu, Jammu during February 18-20, 2016.

Prof. (Dr.) Chandra K. Jaggi

Delivered talk on “Inventory Management” in the “Workshop for Teachers” held at Department of Mathematics, Govt. Holkar [Autonomous] Science College, A.B. Road, Indore during June 10 -11, 2015.

Delivered talk on “Growth of Inventory Models under Trade Credit” in the 2nd International Conference on “Communication Systems” held at B. K. Birla Institute of Engineering & Technology, Pilani, Rajasthan during October 18-20, 2015.

Delivered talk on “Impact of Lead Time on Stochastic Inventory System” in the International Conference on “Nonlinear Dynamics, Analysis and Optimization” held at Jadavpur University, Kolkata during December 9-11, 2015.

Delivered talk on “The Impact of Lead Time on Stochastic Inventory System” in the 7th International Conference on “Quality, Reliability, Infocom Technology and Business Operations (Trends and Future Directions)” held at Conference Centre, University of Delhi, Delhi during December 28-30, 2015.

Delivered talk on “Inventory Modeling in Different Scenario” in the International Conference on “Recent Advances in Optimization Theory and Applications - 2016” held at University of Delhi during January 30-31, 2016.

Delivered talk on “Introduction to Operational Research and its Applications” in the Annual Mathematics event “GANITA – 2016” held at Shyam Lal College, University of Delhi on March 8, 2016.



Prof. (Dr.) Preeti Wanti Srivastava delivered talk on “Bivariate Accelerated Life Test Model with Time Varying stress” in the International Conference on “Celebrating Statistical Innovation and Impact in a World of Big & Small Data”, jointly organized by International Indian Statistical Association during December 20-24, 2015.

Dr. Aditi Khanna

Presented paper “Optimizing Inventory and Pricing Decisions for Imperfect Production with Inspection Errors, Sales Returns and Backorders Under Inflationary Conditions” in the “International Conference on Communication Systems (ICCS-2015)” held at BK-BIET, Pillani during October 18-20, 2015.

Presented paper “Inventory Modeling for Deteriorating Imperfect Quality Items with Price Dependent Demand and Shortage Backordering under Credit Financing” in the International Conference on “Communication Systems (ICCS-2015)” held at BK-BIET, Pillani during October 18-20, 2015.

Kaushal Kumar presented paper “Association Rule Mining to Understand Customer Purchase Behavior in a Supermarket” in the “International Management Conference (IMC-2016) on Business and Economy: Growth, Governance and Globalization” organized by Fortune Institute of International Business, New Delhi held on March 5, 2016.

#### **M.Phil./ Ph.D. Degrees Awarded**

Ph.D.: 6

M.Phil.: 12

#### **Faculty Strength**

Permanent – 12; Ad-hoc - 1

## **STATISTICS**

#### **Major Activities and Achievements**

The Department of Statistics is involved in carrying out research and teaching in diverse fields of Statistics. It has used the power of Statistics and knowledge of computers to contribute significantly in the area of research. The main thrust of the Department is to conduct basic and applied research and to develop trained manpower in the discipline of Statistics. The Department conducts three degree-oriented programmes, viz. M.A./ M. Sc. Statistics, M. Phil. and Ph.D. with a syllabus that incorporates emerging and core areas in different fields of Statistics. The Department also organizes special invited talks by eminent persons from India and abroad. Distinguished Professors visited the Department to deliver research talks and interact with the faculty and students. The Department has achieved a great success in suitable placement of students in reputed national and international companies/organizations.

#### **Publications**

A total of 11 research papers were published during 2015-2016 by the faculty of the Department. List of publications is as follows:

Chaturvedi, A., Kang, S.B. and Pathak, A. (2016). Estimation and testing procedures for the reliability functions of generalized half logistic distribution. *Journal of the Korean Statistical Society*, 45(2), 314-328.

Chaturvedi, A. and Kumari, T. (2015). Estimation and testing procedures for the reliability functions of a family of lifetime distributions. *interstat.statjournals.net/YEAR/2015/abstracts/1306001.php*.

Chaturvedi, A. and Pathak, A. (2015). Bayesian estimation procedures for three-parameter exponentiated-Weibull distribution under squared-error loss function and type II censoring. *World Engineering and Applied Sciences Journal*, 6 (1), 45-58.

Grover G. and Swain P.K. (2016). Accelerated failure time shared frailty models: Application to HIV/AIDS patients on anti-retroviral therapy in Delhi, India. *Turkiye Klinikleri Journal of Biostatistics*, 8(1), 13-20.

Grover, G., Ravi, V. and Swain, P.K. (2015). On the assessment of various factors effecting the improvement in CD4 count of aids patients undergoing antiretroviral therapy using generalized Poisson regression. *Journal of applied statistics*, 42(6), 1291-1305.

Jha, M.K., Singh, P. and Priyadarshini, G. (2016). Cross-over Designs for a model with self and mixed carryover effects. *ProbStat Forum*, 9, 35-43.

Jha, M.K., Singh, P. and Priyadarshini, G. (2015). Cross-over Designs for Factorial Experiments. *International Journal of Agricultural and Statistical Sciences*, 11 (2), 349-355.

Pandey, R., Thakur, N.S. and Yadav, K. (2015). Estimation of Population Mean using Exponential Ratio Type Imputation Method under Survey Non-response. *Journal of the Indian Statistical Association*, 53(2), 89-107.

Saran, J., Pushkarna, N. and Tiwari, R. (2015). Moment properties of generalized order statistics from Lindley distribution. *Journal of Statistics Applications & Probability*, 4, No. 3, 429-434

Saran, J., Pushkarna, N. and Tiwari, R. (2015). Recurrence relations for single and product moments of dual generalized order statistics from a general class of distributions. *Journal of Statistical Theory and Applications*, 14, No. 2, 123-130.

Saran, J. and Nain, K. (2015). Recurrence relations for moment generating functions of generalized order statistics from some specific continuous distributions. *J. Kerala Statist. Assoc.*, 26, 01-23.

### **Research Projects**

Prof. Jagdish Saran, R&D Grant, University of Delhi 2015-2016 entitled “Some Aspects of Generalized Order Statistics”, Rs. 1.30 lacs.

### **Conference Organized**

Prof. Bikas Sinha, Indian Statistical Institute, Kolkata, “Eliciting Information on Sensitive Features : Block Total Response Technique and Related Inference” on June 05, 2015.

Prof. Bikas Sinha, Indian Statistical Institute, Kolkata, “SuDoKu Puzzles – A Combinatorial Marvel” on June 04, 2015.

### **Conference Presentations**

Dr. Ranjita Pandey

Presented a paper “Birth Dynamics in the States of India” in an International Conference on Statistics and Related Areas for Equity, Sustainability and Development in conjunction with XXXV Annual Convention of Indian Society for Probability and Statistics organized by Department of Statistics, Lucknow University, Nov. 28-30, 2015

Presented a paper “Socio-Economic influence on Birth Counts”:in an International Conference A Regression Approach International Conference on Statistics for Twenty First Century organized by Department of Statistics, University of Kerela, Dec. 17-19, 2015.

Presented a paper “Inverse Size Biased p-Dimensional Rayleigh Distribution” in an International Conference on Celebrating Statistical Innovation and Impact in a World of Big & Small data organized by Department of Statistics & Centre for Advanced Studies, Savitribai Phule Pune University. December 20-24, 2015

Presented a paper “Bayesian Inference of Errors in Variable Linear Dynamic Model.” In an International Conference on Current Scenario and Prospects of Nanotechnology and Bio-Statistics organized by School of Sciences, U.P. Rajarshi Tandon Open University, Allahabad. 25-26 February, 2016.

#### **Inter-Institutional Collaboration**

Prof. Suk-Bok Kang, Yeungnam University, Republic of Korea

#### **M. Phil. / Ph.D. Degrees Awarded**

Ph.D. : 01

M. Phil. : 02

#### **Faculty Strength**

Permanent : 05; Ad-hoc : 04

#### **Other Significant Information**

The Department has its own placement cell called Credence. It has been created in the year 2004. With an objective to provide a platform for the placements of students pursuing M.A./M.Sc. Statistics from University of Delhi. Through the placement cell, students get an opportunity to interact with organizations in corporate world. Every year about 75% of the students get placed through Placement Cell. In the year 2015-16, 42 students got placed through the Placement Cell. The Department has its own website : [statistics.du.ac.in](http://statistics.du.ac.in). The information about the placement cell, faculty, research scholars, other staff of the department, courses run the department, syllabus and other relevant information can be found on the department website. The Department has two well-equipped fully computerized laboratories with latest computing facilities to the students and researchers.

## **FACULTY OF MANAGEMENT STUDIES**

#### **Major Activities and Achievements**

Faculty of Management Studies (FMS) offers numerous Programmes of Management Education which include MBA (Full Time), MBA Executive, MBA Executive (Health Care Administration) and Ph.D. in Management. A total number of 225 students of MBA (Full Time), 159 students of MBA Executive, 34 students of MBA Executive (HCA) took their final examinations during the session 2015-2016. A total number of 23 Ph.D. scholars have been notified to have been awarded Ph.D. Degrees during the period.

Faculty members of FMS have been very active in publishing Research Papers, Books, Cases as well as attending International and National Conferences. The students' body of FMS, i.e. Management Science Association, has been very active in organizing Guest Lectures, Academic Workshops, Seminars and Colloquia as well as the Sports Competitions meant for management students from different B-Schools of our country. FMS students also won numerous national and international B-School competitions in academics, business plans as well as case studies organized both by different institutions as well as corporate sector. FMS also conducted large number of Management Development Programmes for various organizations.

#### **Honours/Distinctions**

Prof. Simrit Kaur has been awarded Consultancy Contract to work for United Nations International Fund for Agricultural Development to conduct the Rural Assessment for Nepal and Bhutan.

Dr. Mala Sinha was awarded international recognition and award for 'Highly Commended Theoretical Paper' at The Hongkong Polytechnic University, Kowloon. Hong Kong.

### **Publications**

Agarwala Tanuja (2015), "Gender Hierarchy to Gender Equality: An agenda for transition in higher education", In Gender in Management: An International Journal (Special Issue on the theme "Women in Academia"), Vol. 30, No.5, pp.338-342. Emerald Publishing House, UK.

Vij, Madhu & Dhawan, Swati, (2015), Vol 4, No 5 'Financial Characteristics & Derivative Usage By Commercial Banks In India – Examining The Differences Between Users & Non Users' The International Research Journal of Economics.

Das, D and Chaudhari, R. (2015), "Reverse Supply Chain Management in Consumer Electronics: An Indian Perspective", International Journal of Logistics Systems & Management, Vol. 20, No. 3, pp. 348 – 369.

Dhawan, Swati & Vij, Madhu, (2015) 'Relationship between Market Structure, Efficiency & Performance in Indian Banking Industry,' Indraprastha Journal of Management, Vol 3 No 2, July-December, 2015.

Sareen, Rachan & Vij, Madhu, (2015) 'Determinants of Corporate Credit Ratings: An Empirical Analysis of Indian Companies in the manufacturing sector' Vol 36 Issue2 October 2015-March 2016.

Mahajan, Shalu & Vij, Madhu, (2016), 'A Comparative Study of Profitability Determinants of Banks in India' Vol 7, No 1, Jan–April 2016.

Sharma, Sunil & Mittal, Prabhat,'Quantifying the Bullwhip Effect in Multi-location Supply Chain Network; the impact of dem & forecasting', Bhartiya Vidya Bhavan's Journal of Management & Research, New Delhi ,pp 55-60, Jan-June,2016.

Kaur, Simrit & Kaur, Harpreet (2016) 'Climate Change, Food Security & Water Management in South Asia: Implications for Regional Cooperation', pp: forthcoming Research Paper; IMI's Journal - Emerging Economy Studies.

Kaur, Simrit & Kaur, Harpreet & Sajeev, Aparna Cereal & Fuel Price Interactions: Econometric Evidence from India', Journal of Business Thought 6, 14-37.

Taneja, A. & Agarwala T (2015),"Analysis of satisfaction from work-life balance practices & employer brand experience among different service sectors in India", GD Goenka Business Review: A biannual research journal of School of Management, Vol. 1, No.2, pp. 1-8,

Agarwala Tanuja (2015), "Gender Hierarchy to Gender Equality: An agenda for transition in higher education", (July 2015), In Gender in Management: An International Journal (Special Issue on the theme "Women in Academia"), Vol. 30, No.5, pp.338-342. Emerald Publishing House, UK,

Sinha, Pankaj & Sharma, Sakshi & Sondhi, Kriti (2016), "Market Valuation & Risk Assessment of Indian Banks using Black -Scholes -Merton Model (Accepted for publication in Finance India March 2016)

Sinha, Pankaj & Sharma, Sakshi (2016), "Determinants of bank profits & its persistence in Indian Banks: A study in a dynamic panel data framework," *International Journal of System Assurance Engineering & Management*, vol. 7 ,issue 1, 35-46.

Sinha, Pankaj & Sharma, Sakshi (2016), Operational risk: impact assessment of the revised standardized approach on Indian banks, *Journal of Operational Risk* 11(2), 1–12.

Sinha, Pankaj & Sharma, Sakshi & Sondhi, Kriti( 2016), "Market Valuation & Risk Assessment of Indian Banks using Black -Scholes -Merton Model (Accepted for publication in *Finance India* 2016).

Vardhan, Harsh & Sinha, Pankaj (2016), "Influence of Macroeconomic Variable on Indian Stock Movement: Cointegration Approach," *Journal of Emerging Market Finance* 15(1) 1–35.

Vij, Madhu & Dhawan, Swati, (2015), Vol 4, No 5 'Financial Characteristics & Derivative Usage By Commercial Banks In India – Examining The Differences Between Users & Non Users' *The International Research Journal of Economics & Business Studies*,

Sinha, Pankaj & Agnihotri, Shalini (2016), "Investigating impact of volatility persistence, market asymmetry & information inflow on volatility of stock indices using bivariate GJR-GARCH (accepted for publication in *Global Business Review*).

Ngacho, C. & Das, D. (2016), "Critical success factors influencing the success of Constituency Development Fund construction projects in Kenya: a confirmatory factor analysis", *International Journal of Project Organization & Management*, Vol. 8, No. 6, pp. 172 – 196, Inderscience Publishers.

Singhania, Monika (2015), *Income Tax Mini Ready Recknor*, Taxmann Publications Pvt. Ltd., New Delhi, India,

Singhania, Monika (2015), *Students' Guide to Income-Tax*, Taxmann Publications Pvt. Ltd., New Delhi, India,

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Sengupta, Sunita Singh (2016),Understanding Human Nature & Interplay of Human Relationships at Workplace (ed.). New Delhi: ISOL Publications, 2016.

Sengupta, Sunita Singh (2016),The Power of Mind & Managerial Decision Making (ed.). New Delhi: ISOL Publications, 2016.

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Sengupta,Sunita Singh (2016),Spirituality for Corporate Social Responsibility, Good Governance & Sustainable Development. New Delhi: ISOL Publications, 2016.

Suneja, Vivek (2016), "The Trap of Boredom: Is There A Way Out?" in Compendium on Integrating Spirituality & Organisational Leadership, Volume 5: The Power of Mind & Managerial Decision Making, ISOL Publications, Delhi.

Singh, K.(2015) "Organization Behaviour: Text & Cases, Vikas Publications. 3rd edition.

Verma HV & Duggal E.(2015), Marketing, Oxford University Press New Delhi.

### **Conference Presentations**

The faculty members delivered several invited talks in universities India and abroad.



Prof. Simrit Kaur: International Conference Participation: Presented on 'Investment in Agriculture in South Asia and Scope for Regional Cooperation', at 'Sustainable Development Policy Institute (SDPI), Islamabad, Pakistan, 8th South Asia Economic Summit (SAES) & 18th Sustainable Development Conference, 7th to 10th December (International Conference) in December 2015.

Prof. Sunil Sharma: Key panel speaker at Practice Leader Forum (PLF) on 'Innovations in Manufacturing Operations to Enhance Firm Performance' at NITIE, Mumbai in a session on 'Collaborative Research' organized in association with POMS,USA,NITIE Mumbai,18-19 Dec. 2015.

Dr. Anupama Vohra: Exploring risk taking, privacy concerns, time pressures and willingness to shop online amongst Indian Youth to be presented at ICCMI 2016 (June, 2016)

### **Research Projects**

Dr. Kavita Singh, University of Delhi, "Measurement and Assessment of Work Life Balance of Employees/Managers of Select Indian Business Organizations"

Dr. D. Das, ICSSR, New Delhi, "An assessment of the impact of Sustainable Supply Chain Management practices on overall organizational performance: An empirical study"

Dr. Amit Bardhan, ICSSR, New Delhi, "Development of performance metrics based on Critical Success Factors in humanitarian relief logistics"

Dr. Garima Gupta, University of Delhi, "Green Marketing Practices: A Study of Select Firms in Manufacturing Sector".

Dr. Anjala Kalsie, University of Delhi, "Analysis of Bond Markets".

**Number of Ph. D. Degrees Awarded : 23**

**Faculty Strength:** Permanent 26

### **Other Significant Information**

All graduates of MBA (Full-Time) 2014-2016 received excellent placements and all students of MBA (Full-Time) 2015-2017 were placed for their internships in companies of national and international repute. From a batch strength of 223 students, 13 students took Placement Holiday to experiment in Social and Commercial Sector. 60 students received Pre-Placement Offers. More than 60 CXO level executives from Public, Private and Government Organizations delivered invited talks for the students at FMS. Numerous students won National and International Competitions conducted by Corporates and other leading B-Schools.

## **FACULTY OF MEDICAL SCIENCES**

### **ANATOMY (LHMC)**

#### **Major Activities and Achievements**

The Department organized a symposium cum exhibition 'Dialogue with organs: A stepping Stone to Adolescent health' for school students and undergraduate medical students on 29<sup>th</sup> July 2015 at SJ Auditorium Foyer and medical education hall, LHMC. The highlights of the symposium were

- Health Tambola on Organ Donation was conducted by Dr. Reeta Dhar to create awareness about organ donation & transplant. The winners of tambola were awarded prizes.
- Dr. Indu Grewal (Head, Health Promotion & Education Division, CHEB, Delhi) delivered a guest lecture on “*Staying Healthy Is As Easy As ABCDE*”
- Dr. Nand Kumar (Additional Professor, Department of Psychiatry, AIIMS, Delhi) delivered a guest lecture on “*Alcohol & Drug-Abuse: Effect On Body & Brain*”

A Symposium on Emotional intelligence for Ist year MBBS was organized on 27<sup>th</sup> October 2015. The highlights of the symposium were

- Dr. Anjana Sen (Emotional Intelligence Consultant, Trainer & Coach) delivered a guest lecture on “*Maximise Potential, Minimize Stress Through Emotional Intelligence*”.
- Dr. Mohit Dayal Gupta (Associate Professor, Cardiology, GB Pant Hospital, Delhi) delivered a guest lecture on “*Rejuvenating Young Medical Minds*”.

Body Donation Awareness Campaign was initiated from September 2015 to Feb. 2016.

- Poster competition & creative writing competition was organized for undergraduate medical students on ‘Body Donation Awareness’
- 25 medical student volunteers were enrolled and trained for the campaign
- General public awareness talks were given in different zones of Delhi. Pamphlets were also distributed.
- Collaboration with NGO – Dadhichi Deh dan was initiated.

## Publications

Saini, K. (2015) A morphometric study of foramen magnum in dry adult human skull, *International Journal of Current Research and Review*, 7(4), 14-19.

Yadav, N, Saini, K., Patil, K. (2015) Determination of sex using adult human sacrum- a morphometric study, *International Journal of Current Research and Review*, 7(3), 22-28.

Chhabra, K., Saini, K. (2015) Morphometric study of arch of aorta and its branches, *International Journal of Anatomy and Research*, 3(2), 1016-1082.

Shilal, P. and Tuli, A. (2015) Anatomical Variations in the Pattern of the Right Hepatic Veins Draining the Posterior Segment of the Right Lobe of the Liver, *J Clin Diagn Res*; 9(3), AC08–AC12. doi: 10.7860/JCDR/2015/8736.5671.

Mahajan, R., Tuli, A. , Raheja, S. (2015) Aberrant arterial anastomosis between kidney and paranephric fat vasculature: A Serendipitous finding, *Sch. J. App. Med. Sci.*, 3(3H):1567-1569.

Mahajan, R., Raheja, S., Tuli, A., Singh, S., Agarwal, S. (2015) Tortuous ulnar artery and Gantzer’s muscle: A rare presentation with clinical implications, *IAIM*, 2(7), 141-146.

Mangala Kohli, Reeha Mahajan, Payal Bansal, Anita Tuli, PA Athira (2015) Cell Biology and Ethics: Knowledge, Attitude and practices of anatomists in India, *Journal of Biosciences and Medicines*; 3: 66-72. dx.doi.org/10.4236/jbm.2015.33010.

Mehra, L. , Raheja, S., Agarwal, S., Rani, Y., Kaur, K., Tuli, A. (2016). Anatomical consideration and potential complications of coronary sinus Catherisation. *JOURNAL OF CLINICAL AND DIAGNOSTIC RESEARCH*. doi:10.7860/jcdr/2016/16455.7295

Agarwal, B. B., Chintamani, & Agarwal, S. (2015). Fast track Surgery—Minimizing side effects of surgery. *Indian Journal of Surgery*, 77(S3), 753–758. doi:10.1007/s12262-016-1451-8

Mehra, L., Raheja, S., Agarwal, S., Rani, Y., Kaur, K., & Tuli, A. (2016). Anatomical considerations of percutaneous transvenous mitral annuloplasty: A novel procedure for treatment of functional mitral regurgitation. *Anatomy & Cell Biology*, 49(1), 68. doi:10.5115/acb.2016.49.1.68

Athira PA, Kohli M, Mahajan R, Tuli A, Rani M. (2016) Variations in the morphology of Cerebral hemispheres and their clinical implications with special reference to Polygyria, *Int. J. Current Research*, 8(3), 28554-28557.

### **Research Projects**

“Histological Age Related Changes in Adult Human Liver” funded by LHMC.

“Microanatomical and angiographic study of middle cerebral artery in adult Indian population” funded by LHMC.

“Morphometric study of trachea, Bronchi and their concomitant topographic relationship with pulmonary artery in adult human cadaveric lungs and CT imaging in patients of comparable age groups” funded by LHMC.

“Histomorphometric study of subthalamic nucleus in adult human cadaveric brain and correlation with MR images of patients in comparable age groups” funded by LHMC.

“Anthropometric study of human adults skeletons and their variations” funded by LHMC.

### **Conference Presentations**

Dr. Sheetal Joshi presented poster on “Judicious Use Of Technology To Make Anatomy Lectures Interesting” at MAMC organized by NCHPE during 19<sup>th</sup> Nov.-21<sup>st</sup> Nov., 2015.

Dr. Minakshi Verma presented a poster on “Unilateral Variation of Mental Foramen” at NATCON -63 organised by Anatomical Society of India, KGMU Lucknow during 20<sup>th</sup> -23<sup>rd</sup> Nov 2015.

Dr. Lalit Mehra presented an oral presentation on “Anatomical Considerations Of Percutaneous Transvenous Mitral Annuloplasty: A Novel Procedure For Treatment of Functional Mitral Regurgitation” at NATCON -63 organised by Anatomical Society of India, KGMU Lucknow during 20<sup>th</sup> -23<sup>rd</sup> Nov 2015.

Dr. Akanksha Singh presented an oral presentation on “Variations And Anomalies Of Cerebral Arteries and Their Clinical Implications With Special Reference to Middle Cerebral Artery” at NATCON -63 organised by Anatomical Society of India, KGMU Lucknow during 20<sup>th</sup> -23<sup>rd</sup> Nov 2015.

Dr. Athira P A presented a poster on “Unequal Cerebral Hemispheres With Polygyria- A Rare Finding With Clinical Implications” at NATCON -63 organised by Anatomical Society of India, KGMU Lucknow during 20<sup>th</sup> -23<sup>rd</sup> Nov 2015.

### **Inter-Institutional Collaboration**

Faculty of Department of Anatomy, LHMC organised a Basic fractures and fixation workshop on 6<sup>th</sup> Dec., 2015 under the aegis of Indian Orthopedic Association Delhi chapter.

## Other Significant Information

Department has following laboratories:

- State recognized Embalming Centre,
- Fetal Repository for research and teaching.
- Establishing bone bank and Temporal bone lab ( upcoming)
- Neurobiology lab,
- Microanatomy lab,
- Cadaveric lab for surgical skills
- Video dissections for teaching and demonstrations

## ANATOMY (UCMS)

### Publications

Chauhan, R. (2016) *Anatomy for MLT and other Allied Courses*, Avichal Publishing Company, New Delhi, India.

Chauhan, R., Nagar, M. (2015) Dorsal Sacral Dimensional Anatomy-Revisited, *International Journal of research in Medical Sciences*, 3(6), 1473-1477.

Chauhan, R., Nagar, M. (2015) Anatomical profile and morphometric evaluation of human sacral hiatus in north Indians, *Journal of Surgical Academia*.5(2), 8-12.

Rani, P., Kalra, S. (2015) A Cadaveric Study of Normal and Variant Levels of Division of Sciatic Nerve and Coupled Anomalies with Clinical Applications in Surgical Interventions, *International Journal of Anatomy and Research*, 3(3), 1230-1236.

**Faculty Strength:** Permanent – 2

## ANAESTHESIOLOGY AND INTENSIVE CARE

### G. B. Pant Institute of Medical Education & Research (GIPMER)

#### Major Activities and Achievements

In this academic year, 16 articles were published by the Department of Anaesthesia, 12 research papers were presented at various conferences out of which 4 of them won awards. Faculty members were invited at 37 academic forums, to take guest lectures, chair academic sessions, judge award papers, and for expert opinion at for panel discussions and pro-con sessions. 18 research projects were undertaken. Dr. R. Uppal, Head of Anesthesia, initiated the process of introducing two new courses- D.M Cardiac- Anesthesia, D.M Neuroanesthesia. The Department organised two conferences; it also conducted “Anaesthesia and Critical care” and “GCS” training program for hospital staff nurses. 282 hospital personnel were trained in “Basic Life support skills”. Dr. Rajeev Uppal and Dr. A.S Tomar, Chairman and convenor of the Hospital Disaster Managing Committee, respectively, made significant contributions to improve the disaster preparedness of the hospital.

#### Honours/Distinctions

Dr. Anirban H. Choudhuri was awarded “Honor of Excellence” by Indian Society of Critical Care Medicine.

Dr. R. Chawla, Dr. Shikha Bansal was awarded Best poster award at 3<sup>rd</sup> AIIMS Neuro-trauma Conference, Oct 2015 for “Awareness of Glasgow Coma Scale amongst nurses at tertiary care centre in India: A survey”.

Dr. Pragati Ganjoo, Dr Izharwas awarded Second prize at the 18<sup>th</sup> Annual Conference of Delhi Neurological Association: Allied Sciences section, March 2016. Topic: Phenytoin related fatal Steven Johnson Syndrome in two patients with brain tumors: need to revisit the routine anticonvulsive therapy?

Dr. Monica S Tandon, Dr. Priyanka Khurana, Dr. Parul Sharma awarded Third prize at the 18<sup>th</sup> Annual conference of Delhi Neurological Association Allied Sciences section, March 2016. The Topic was ‘Delayed emergence after endovascular coiling- is anaesthetic effect a red herring?’

Dr. R. Chawla, Dr. Shikha Bansal: Awarded Third Prize at the 3<sup>rd</sup> Neuroanesthesia Update at AIIMS, October 2015. Topic: Awareness Coma scale in Anaesthesiology Postgraduates in India: A survey.

### **Publications**

Datt, V., Tempe, D., Lalwani, P., Aggarwal, S., Kumar, P., Diwakar, A., & Tomar, A. (2015). Perioperative management of a patient with dandy walker malformation with tetralogy of Fallot undergoing total correction and fresh homologous pericardial pulmonary valve conduit implantation: Report of a rare case. *Annals of Cardiac Anaesthesia*, 18(3), 433.

Tempe, D., Chaudhary, K., Diwakar, A., Datt, V., Virmani, S., Tomar, A., ... Mohire, V. (2016). Comparison of hemodynamic responses to laryngoscopy and intubation with Truview PCD TM , McGrath ® and Macintosh laryngoscope in patients undergoing coronary artery bypass grafting: A randomized prospective study. *Annals of Cardiac Anaesthesia*, 19(1), 68.

Tempe, D., Batra, U., Datt, V., Tomar, A., & Virmani, S. (2015). Where does the pulmonary artery catheter float: Transesophageal echocardiography evaluation. *Annals of Cardiac Anaesthesia*, 18(4), 491.

Kumar, M., Chawla, R., Goyal, M. (2015) Topical Anaesthesia. *Journal of Anaesthesiology and Clinical Pharmacology*, 31(4), 450– 456.

Jindal, A., Sharma, B. C., Sachdeva, S., Chawla, R., Srivastava, S., & Maharshi, S. (2015). Bispectral index monitoring for diagnosis and assessment of severity of hepatic encephalopathy in cirrhotic patients. *Digestive and Liver Disease*, 47(9), 769–774.

Ganjoo, P. (2015). Outcome after revascularization surgery for moyamoya disease: An anesthesiologist’s perspective. *Neurology India*, 63(5), 654.

Tandon, M.S., Kiro, K. (2016), Traumatic Brain Injury. In: Babita Gupta (ed) *Essentials of Anesthesia and Intensive Care*, 1<sup>st</sup> edition, PeePee Publishers, New Delhi, 254-285.

Mohanty, S., Dabas, J., Tandon, M.S., Singh, D. (2015), Postoperative acute circulatory collapse following craniofacial surgery: Rare event and rarer cause, *National J of Maxillofacial Surgery*, 6(1), 93-95.

### **Research Projects**

Dr. Vishnu Dutt, “Comparison of accuracy of TEE measurement with standard PA catheter: measurement of pulmonary artery pressure in patients undergoing adult cardiac surgery” .

Dr. Pragati Ganjoo, “Analysis of risks and benefits of surgery in the sitting position”.

Dr. Monica S Tandon, “An Analysis of outcomes after decompressive craniectomy”.

Dr. Sanjula Virmani, “A survey of On Pump and Off Pump CABG”.

Dr. Priyanka Khurana, “Knowledge, attitude and practices of nurses for postoperative pain management”.

### **Conferences Organised**

54<sup>th</sup> Annual Conference of Indian Society of Anaesthesiologists (Delhi Chapter), April 2015, at National Agriculture Science Centre, New Delhi.

3<sup>rd</sup> Annual Conference on Critical Care Advances in the Millennium (ACCORDION). November 2015; at Silver Oak, India Habitat Centre, New Delhi.

### **Conference Presentations**

Dr. Pragati Ganjoo gave guest lecture on ‘Weaning from ventilators’ at 8<sup>th</sup> NSI instructional and 2<sup>nd</sup> foundation course 2015, organized by Department of Neurosurgery GIPMER, on 8th-9th August 2015

Dr. Priyanka Khurana delivered guest lecture on “Post Dural Puncture Headache’ in EORCAPS, Delhi, September 2015

Dr. Rajiv Chawla delivered guest lecture on “RBC Transfusion In Neurosurgery” at The 4<sup>th</sup> Congress of Asian Society of Neuroanaesthesia & Critical Care at Busan, South Korea.

Dr. Anirban H. Choudhuri presented paper entitled “Early use of Ulinastatin reduces MODS in septic shock following anastomotic failure” at 12<sup>th</sup> Congress of European Association for Clinical Pharmacology & Therapeutics at Madrid, Spain on June 27-30, 2015.

### **Inter-Institutional Collaboration**

Cardiac and Neuro-anaesthesia training of Residents from L.N.J.P Hospital.

Cardiac and Neuro-anaesthesia training of Doctors from Railway Hospital, New Delhi

**Faculty Strength:** Permanent: 11

### **Other Significant Information**

Following faculty members served as reviewers for scientific journals:

Dr. Vishnu Dutt: Annals of Cardiac Anesthesia

Dr. Pragati Ganjoo: Journal of Anaesthesiology and Clinical Pharmacology, Neurology India, Indian Journal of Critical Care Medicine, Indian Journal of Anaesthesiology, Journal of Neuroanaesthesiology and Critical Care.

Dr. Monica S Tandon: Journal of Neuroanaesthesiology and Critical Care

Dr. Anirban H Choudhuri: Journal of Critical Care, Indian Journal of Critical Care Medicine”

## BIOCHEMISTRY (LHMC)

### Major Activities and Achievements

This year four MD students have submitted thesis/ protocols with the faculty of Biochemistry as supervisor and more than 20 MD/MS of other departments with Biochemistry faculty as co-supervisors. Faculty has attended annual conferences of ACBI, AMBI, ISAR ISSRF and IABS. There are about 10 publications in various National and International Journals. Two awards/ prizes were given to post graduate students in various national and International conferences.

The department runs routine and 24x7x365 days emergency clinical laboratory services with state of the art fully automated analyzers as well as hormone lab and Molecular biology lab. The KSCH clinical biochemistry laboratory has been taken over by Biochemistry department. Total number of tests conducted in the clinical biochemistry lab is more than 10 lacs this year.

### Honours/ Distinctions

Dr. Ritu Singh received DHR-ICMR international fellowship in Genomics 2014-2015

### Research Projects

Dr. Anju Jain: "A randomized control trial to compare the efficacy of N acetyl cysteine, metformin or placebo therapy on clinical, hormonal, metabolic and oxidative stress profile of infertile women with polycystic ovary syndrome along with clomiphene citrate".

Dr. Ritu Singh: "Role of Pregnancy Associated Plasma Protein A (PAPPA) and free  $\beta$  hCG levels, uterine artery Doppler and maternal factors in first trimester of pregnancy for prediction of preeclampsia :ICMR 5/7/509/10-RHN".

Dr. Binita Goswami: "The role of VEGF, VEGF-R2 paxillin and AKT expression and serum VEGF, VEGF-R2 paxillin and AKT levels as indicators of tumor burden in patients with endometrial carcinoma".

### Conferences organized

Symposia Delhi Chapter- ISAR "recent advances in cardiovascular diseases"

Symposium on "Molecular aspects of Reproductive Health"

**Faculty Strength:** Permanent: 9

### Other Significant Information

- Special Biochemistry lab tests started: Serum Insulin, Vitamin B12, Folic acid and Vit D.
- KSCH Biochemistry Laboratory totally under Department of Biochemistry LHMC & SSKH.
- New Hormone Tests started: serum PSA and Beta HCG for patient care in SSKH besides other ongoing hormones/tests in SSKH lab .
- Training of all faculty in NABL and MCI approved National Teachers Training.

## BIOCHEMISTRY (UCMS)

### Major Activities and Achievements

The Department has made significant progress in undergraduate and post-graduate training as well as research. Three students were awarded Ph.D and currently there are 16 students registered for Ph.D under various faculty members. Many of our Faculty members were bestowed with prestigious awards and orations and were invited for presenting research papers at reputed national and international conferences. Many of them are also holding eminent positions in various national and international expert / technical/reviewer committees. Currently there are eight ongoing projects in the Department of Biochemistry. Three new projects have been sanctioned by DBT, ICMR and AYUESH (2015-2016). The faculty members have published more than thirty research articles in peer reviewed International/National journals of high impact factor.

### Honours/Distinctions

Dr. S.B. Sharma, Director Professor was elected President, Indian Society of Atherosclerosis Research, 2015 – 2017.

### Publications

Shukla, S.K., Bala, S., Singh, U.R., Ahamad, S., Dwivedi, S., (2015) Terminalia arjuna (Roxb.) wight & Arn. Augments cardio protection via antioxidant and anti-apoptotic cascade in isoproterenol induced cardiotoxicity in rats, *Ind Jr of Exp. Boil*, 53, 810-818.

Mehndiratta, M. and Puri, D., (2015) Adopting role play for training medical interns about sample collection and processing for laboratory investigations, *Ind J of Med Biochem*, 19(1), 24-27.

Dikshit, P., Tyagi, M. K., Shukla, K., Gambhir, J. K., & Shukla, R. (2015). Antihypercholesterolemic and antioxidant effect of sterol rich methanol extract of stem of Musa sapientum (banana) in cholesterol fed wistar rats. *Journal of Food Science and Technology*, 53(3), 1690–1697.

Khan, M. A., Subramaneyaan, M., Arora, V. K., Banerjee, B. D., & Ahmed, R. S. (2015). Effect of Withania somnifera (Ashwagandha) root extract on amelioration of oxidative stress and autoantibodies production in collagen-induced arthritic rats. *Journal of Complementary and Integrative Medicine*, 12(2), 117-125.

Chandra, N., Mehndiratta, M., Banerjee, B. D., Guleria, K., & Tripathi, A. K. (2015). Phenotypic expression and polymorphism of Glutathione S Transferase gene in materno-fetal dyads with idiopathic fetal growth restriction. *Journal of Reproductive Health and Medicine*, 1(1), 10–17.

Garg, S., Kar, R., Madhu, S.V., (2015) High density lipoproteins are significantly reduced in early stages of untreated type 2 diabetes mellitus, *International Journal of Clinical Biochemistry and Research*, 2, 13-17.

Mehndiratta, M., Garg, S., Kar, R., Puri, D., (2016) Pitfalls of currently practiced approach for teaching medical students: opinions & options, *International Journal of Clinical Biochemistry Research (IJCBR)*, 3(1), 100-104.

Dev, K., Sharma, S. B., Garg, S., Aggarwal, A., & Madhu, S. V. (2016). Glycated apolipoprotein B—A surrogate marker of subclinical atherosclerosis. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*, 10(2), 78–81.

Mehndiratta, M., Gupta, S. & Puri, D., (2015) Roleplay: a method of teaching biochemistry to medical undergraduates, *Ind J of Med Biochem*, 19(1), 39-41.



Deshmukh, P. S., Nasare, N., Megha, K., Banerjee, B. D., Ahmed, R. S., Singh, D., Mediratta, P. K. (2015). Cognitive impairment and Neurogenotoxic effects in rats exposed to low-intensity microwave radiation. *International Journal of Toxicology*, 34(3), 284–290.

### **Research Projects**

Dr. B.D. Banerjee, DBT Research Project, 2014 – 2017 entitled “Gene –Environment Interaction and identification of high risk phenotype in the etiology of epithelial ovarian cancer”, Rs. 56 lakhs.

Dr. S.B. Sharma, ICMR Research Project, Sept 2015-Aug 2018 entitled “Design and synthesis.....diabetic rats”, Rs. 28,60,45/-.

Dr. Rafat S.Ahmed, AYUSH Research Project, 2016- 2019 entitled “Experimental studies to assess the efficacy of commonly used unani formulations for improvement of cognitive functions and neuroprotection”, Rs 47,00,160.

Dr. Seema Garg, DHR (under MRU, UCMS) Research Project, entitled “Interplay between Platelet activating Factor- Acetyl Hydrolase (PAF-AH), inflammation and oxidative stress in metabolic syndrome”, Rs. 8.5 lakhs.

Dr. Rajarshi Kar, DBT Research Project, 2015-2018 entitled “Primary cultures of epithelial ovarian cancer as a tool to detect resistance to chemotherapeutic agents – a pilot study”, Rs.25 lakhs.

### **Conferences Presentations**

Dr. Kar Rajarshi presented a paper at 23<sup>rd</sup> Annual Conference of Association of Medical Biochemist of India at Pt B D Sharma PGIMS, Rohtak, 20<sup>th</sup>-22<sup>nd</sup> November 2015.

### **Inter-Institutional Collaborations**

The project of Prof. S.B. Sharma entitled “Design and synthesis.....diabetic rats” is in collaboration with Department of Chemistry ARSD college, University of Delhi.

### **No. of Ph.D. Degrees Awarded**

Ph.D. : 3

**Faculty Strength:** Permanent: 07

## **BIOCHEMISTRY (VPCI)**

### **Major Activities and Achievements**

The studies on ‘erythrocyte membrane protein profile and oxidant and antioxidant status of blood in bronchial asthma’ in the Department of Biochemistry (VPCI) had shown that in asthmatic patients there is increased oxidative stress as compared to controls in red blood cells. The protein profile of erythrocyte membrane in 2-D electrophoresis showed significant differential expression of proteins in asthmatic and healthy subjects, which may be correlated with the oxidative stress.

*Study on CRHR1 and GR gene polymorphism and their correlation with the expression of various inflammatory cytokines in asthma in North Indian population* showed the presence of SNPs in *CRHR1* gene at 37260 (rs242940) (T/C), 50089 (rs242949) (T/C), 50229 (A/C), 50300 (A/C) in 16 asthmatics further. The sequencing of *GR* genes in progress.

*Role of innate immune response mechanisms in development of bleomycin induced lung fibrosis* was studied in rat model. The protease (MMP-9) and antiprotease (TIMP-1) involved in extracellular matrix remodelling showed increased expression of MMP-9 protein from day 7 upto day 14 and decreased on day 28 while TIMP-1 expression progressive increased showing an imbalance in protease and antiprotease activity.

### **Research Projects**

Mr. Manoj Kumar, DBT Research Project, entitled “Studies on erythrocyte membrane protein profile and oxidant and antioxidant status of blood in bronchial asthma”, 14.92 Lakhs.

Dr. Rajendra Singh (Dr. DS Kothari Postdoctoral Fellow), UGC Research Project, entitled “Erythrocytic Membrane Proteins: Expression proteomics and their significance in bronchial asthma”, 16.57 Lakhs.

Mr. Anil Meena (ICMR-JRF), ICMR Research Project, entitled “A study on CRHR1 and GR gene polymorphism and their correlation with the expression of various inflammatory cytokines in asthma in North Indian population”, 16.10 Lakhs.

Ms. Apoorva Pandey (UGC – SRF), UGC Research Project entitled “Role of Innate Immune Response Mechanisms in Development of Bleomycin Induced Lung Fibrosis”, 19.00 Lakhs.

**Faculty Strength:** Permanent: 02

## **CARDIOLOGY (GBPH)**

### **Major Activities and Achievements**

Department of Cardiology aims to bring heart care of best standards within reach of every individual. The year 2015 has been an important milestone. Basic research in genetics of hypertension, rheumatic heart disease & ischemic heart disease and coronary slow flow were published in major peer reviewed international journals.

### **Research Projects**

“Significance of Apo-E gene polymorphism and non conventional biochemical risk factors in very young patients of Acute myocardial infarction”.

“Demographic, clinical, angiographic and risk factor profile in patients with MI who are < 35yrs”.

“Effect of BMV on p wave dispersion and atrial electromechanical delay in patients with Rheumatic mitral stenosis”.

“Predictors of coronary slow flow in Indian population”.

“Assessment of pulmonary vascular changes in patients with Rheumatic mitral valve disease and pulmonary hypertension undergoing mitral valve replacement”.

### **Conferences Organized**

Workshop on Chronic total Occlusion, by Japanese operator Dr Kawazari.

### **Conference Presentations**

Dr. Nirat Beohar, Associate Professor of cardiology and Director, Structural Heart Disease program, Mt Sinai Medical Center, delivered a talk on “Percutaneous therapies for Coronary artery disease”

Dr. Shakeel Quereshi: Professor and director, Evelina Heart center, London gave a talk on Embolization therapy in congenital heart disease

Dr. Salvatore Cassese, Director German Heart Center, Munich: Talk on Antiplatelets for PCI patients: Current trends and Future directions

### **Inter-Institutional Collaboration**

Department has collaborated with Institute of genomics and integrative biology for advanced genetic analysis.

### **Other Significant Information**

Department has particular focus on prevention of heart disease. The faculty of the department is undertaking various public awareness programmes on heart disease.

- Talk on Nurses day "Easy Life for Busy People", Secrets of healthy and Happy Life.
- Talk on “Secrets of Stress management, self transformation, healthy lifestyle and various life style modifications.
- Department organizes and participates in various programme on prevention of heart diseases.
- Yoga center of the department helps the cardiac patients in prevention and life style management.

## **COMMUNITY MEDICINE (MAMC)**

### **Major Activities and Achievements**

The Department has organized 11 training programmes/ seminars/ workshop/ conferences during the period in addition to routine MBBS, MD, Ph.D training programmes. Eight MD theses completes, one PhD thesis submitted, two ICMR studentship projects completed. Five projects funded by ICMR / Sanofi Pasteur are currently being carried out in the department. 65 publications and 7 books/chapters were contributed by faculty in the department. Faculty attended several conferences/workshops/seminars as Chairperson, invited speaker, or presented papers. Department provided OPD services to 217233 patients in four health centres, immunized children and provided contraceptives to women and organised several health talks, skits, plays in the community .

### **Honours/ Distinctions**

Dr. Suneela Garg honoured for developing infant hearing screening modules guidelines for South East Asia Region.

### **Publications**

Singh, R., Garg, S., & Khurana, D. (2015). Infant hearing screening in India: Current status and way forward. *International Journal of Preventive Medicine*, 6(1), 113.

Anand, T., & Garg, S. (2015). Menstruation related myths in India: Strategies for combating it. *Journal of Family Medicine and Primary Care*, 4(2), 184.

Garg, S., Ramalingam, A. &Prabhu, N., (2015) Strengthening Dengue Sentinel Surveillance: The Need of the Hour, *Indian Journal of Communicable Diseases*, 1(2).

Bansal, R., Garg, S. &Gupta, V.K., (2015) Hypertension and Associated Risk Factors among Adults in Urban Slums of Delhi: Need for Strategic Action, *Journal of Medicine Research and Reviews*, 1(2), 5-12.

Malik, A., Bhilwar, M., Rustagi, N., & Taneja, D. K. (2015). An assessment of facilities and services at Anganwadi centers under the integrated child development service scheme in northeast district of Delhi, India. *International Journal for Quality in Health Care*, 27(3), 201–206.

Soyam, V. C., Sharma, N., Das, J., Boro, P., Kohli, C., Khanna, A., & Meena, G. S. (2015). Perspectives of health care provider regarding TB-HIV referral strategy and non-uptake of HIV testing in Delhi – A qualitative study. *Indian Journal of Tuberculosis*, 62(3), 156–161.

Bhilwar, M., Lal, P., Sharma, N., Bhalla, P., & Kumar, A. (2015). Prevalence of reproductive tract infections and their determinants in married women residing in an urban slum of north-east Delhi, India. *Journal of Natural Science, Biology and Medicine*, 6(3), 29-34.

Sahoo, J., Singh, S. V., Gupta, V. K., Garg, S., & Kishore, J. (2015). Do socio-demographic factors still predict the choice of place of delivery: A cross-sectional study in rural north India. *Journal of Epidemiology and Global Health*, 5(4), S27–S34.

Banerjee, B., Banerjee, R., (2015) Maternal and Neonatal tetanus Elimination: Another ‘Feather in the Cap’, for India, *Indian J Communicable diseases*, 1(2), 79-82.

### **Research Projects**

Dr. Suneela Garg, Sanofi Pasteur Research Project, entitled “Prospective dengue seroprevalence study in 5 to 10 year-old children in India”.

Dr. Suneela Garg, Sanofi ICMR Research Project, entitled “Prospective study of Magnitude of Domestic Violence in Pregnancy, it’s Associated Factors, Related Maternal Health and Birth Outcomes in Delhi ”.

Dr. Suneela Garg, WHO and SSHI Research Project, entitled “Status of ear and hearing care in south East Asian region”.

Dr. M.M. Singh, ICMR Research Project, entitled “Healthcare facility preparedness and knowledge, attitude and practices among healthcare providers regarding gender based violence in Delhi”.

### **Conference Organized**

1<sup>st</sup> world Congress on Action towards better hearing.

Round Table discussion on “A defeating dengue : Preparedness for affective response & treatment sponsored by IMPRIMIS participants from MoHFW Govt of India , NCDCs.

Stakeholders meeting on preparation of IEC material for prevention and control of deafness, participants from MoHFW Govt of India, Aliyavar Jung Institute, MAMC.

Stakeholders meeting on inclusion of children with hearing loss MoHFW Govt of India.

International Symposium on Impact of Chemical Exposures on Health and Environment held at MAMC, New Delhi.

### **Inter-Institutional Collaboration**

Training of officers of the Delhi Judicial services in MAMC regarding health programmes and health care services.

**No. of MD Degrees Awarded:** 8

**Faculty Strength:** Permanent– 11

## **COMMUNITY MEDICINE (LHMC)**

### **Honours/ Distinctions**

Dr. S K Rasanias was awarded Fellowship of Indian Association of Preventive & Social Medicine (FIAPSM). He is also the reviewer of Indian Journal of Community Medicine, Indian Journal of Public Health, Journal of Young Medical Researchers, Journal of Nutrition in Gerontology & Geriatrics, Indian Journal of Medical Research, Secretary, Delhi Chapter of Indian Association of Preventive & Social Medicine. Dr. S. K. Rasanias is aHonorary faculty for “The Art of Living” a programme of “Vyakti Vikas Kendra”, an international, United Nation recognized Non Governmental Organisation.

Dr Bachani has been given additional charge as Deputy Commissioner (NCD) by Ministry of Health & FW, Planning, coordinating, monitoring and supervision of National Programmes relating to NCDs and Trauma. He is a Member Secretary of Steering Committee on NCD Monitoring & Surveillance, and reviewer of Indian Journal of Pediatrics, Indian Journal of Medical Research (ICMR), Indian Journal of Community Medicine, ISRN Infectious Disease Journal etc. Dr. Bachani is also a Member of the Editorial Board of Community Eye Health Journal- South Asia Edition, Chief Guest Editor of special issue of BioMed Research (UK) on NCDs and Member of Editorial Advisory Board of Journal “Epidemiology International”

Dr J G Prasuna is a Government nominee for participating in the Training of Trainers on “Public Health Teaching in Medical Schools in SEAR from 12-23, January, 2015 at Chulalongkorn University, At Bangkok, Thailand. He has been a Guest Speaker on Women’s Rights in India: A contemporary perspective”. National Seminar, on 20<sup>th</sup> of March, FIMT, Kapashera, New Delhi 110037. He also delivered a talk on “Women’s Health –for employees of CBI at Zonal Staff Training Center, Link House BSZ Marg, New Delhi on 13/10/15.

Dr. Anita S Acharya is Senior Executive Editor, Indian Journal of Medical Specialities.

Dr. Manish K Goel is a Member of editorial board of Indian Journal of Youth and Adolescent Health, IAPSM, Delhi Chapter- Jt. Secretary cum Treasurer.

## Publications

Ray, T.K., Garg, S., Gupta, V.K., Chandra, J. & Bachani, D., (2015) Impact of training on knowledge and practices regarding HIV/AIDS among Health Care Workers in a tertiary level medical institute of Delhi, *The Indian Practitioner*, 68:6, 53-58.

Acharya, A., Kaur, R., Prasuna, J., & Rasheed, N. (2015). Making pregnancy safer-birth preparedness and complication readiness study among Antenatal women attendees of A primary health center, Delhi. *Indian Journal of Community Medicine*, 40(2), 127 - 134.

Kasdekar, P.M. ,Prasuna, J.G., Sulania, A.,Rasania, S.K. & Dwivedi, N., (2015) Relationship of Anemia and Morbidities among Children aged 5-14 years in a resettlement area ,Delhi”, *Indian Journal of Community Health*,27(2), 270-275.

Sulania, A., Khandekar, J., & Nagesh, S. (2015). Burden and correlates of disability and functional impairment in an urban community. *International Journal of Medicine and Public Health*, 5(1), 82 - 85.

Acharya, A., & Panth, M. (2015). The unprecedented role of computers in improvement and transformation of public health: An emerging priority. *Indian Journal of Community Medicine*, 40(1), 8 - 13.

Laskar,A. R., Suri, S. & Acharya, A.S., (2015) Scrub Typhus: Re-emerging Public Health Problem in India, *J. Commun. Dis.*; 47(3), 19-25.

Khera, G., Tandon, R., Acharya, A. S., & Acharya, S. (2015). Magnitude and pattern of spinal disorders among patients working in Indian railways at a tertiary care hospital, Delhi: A prospective study. *Indian Journal of Medical Specialities*, 6(3), 88–93.

Acharya, A.S., Priyanka & Khandekar, J., (2015) Knowledge, Beliefs and Practices of Medical Interns Regarding Injection Safety, Standard Precautions and Needle Stick Injuries: A Cross Sectional Study from a Tertiary Care Hospital of Delhi, *Int. J. Health Science and Research*,5(5), 72-79.

Thakur, A., Goel, M.K. & Ray, T. K., (2015) Cancer in Adolescents: an overlooked situation, *India Journal of youth and adolescent Health*, 2(3), 58-63.

Bhat, A., Ray, T. K.,Vibha &Sahni J. K., (2015) Ear problems in children of an underprivileged community of Delhi, *The Indian practitioner*, 68(4), pp.22-26.

Sharma, A., Ray, T.K & Nagesh, S., (2015) Unsafe sex- A serious concern among underprivileged youth in Delhi, *Indian Journal of Youth and Adolescent Health*, 2 (4),17-20.

Bhat, A., Ray, T. K.,Vibha & Sahni, J. K., (2015) Aural hygiene practices among underprivileged children of Delhi, *Natl. J. Med. India*, 28(6),280-81.

Roy, P., Goel, M., Rasania, S., Roy, S., Kumar, Y., & Kumar, A. (2015). Wealth index and maternal health care: Revisiting NFHS-3. *Indian Journal of Public Health*, 59(3), 217-219.

Kumar, G., Seth, G., & Goel, M. K. (2015). Travelers health: An emerging issue. *Indian Journal of Medical Specialities*, 6(1), 20–25.

Thakur, A., Goel, M.K., & Ray, T.K. (2015) Cancer in Adolescents: an Overlooked Situation, with Serious Concern, *Indian Journal of Youth and Adolescent Health*, 2(3), 58-63.

Goyal, I., Goel, M.K. & Nagesh, S., (2015) Disaster Relief Workers: Health Issues, *Journal of Advance Research in Medicine, Special Issue*, 2(1), 33-36.

### **Research Projects**

Dr. D Bachnai, Director Professor (PI), Dr. Anita S Acharya (Co-PI), Dr. Jyoti Khandekar (Co-PI) and Dr. S.K.Rasania (Co-PI), ICMR Research Project, 2015 entitled “Health Accounting Scheme: Empowering people for health care through multi-sectoral coordination –An operational Evaluation”, Rs. 36 Lakh.

### **Inter-Institutional Collaboration**

The department faculty is involved in training of Students enrolled for Post Graduate Diploma in Maternal & Child Health (PGDMCH) from IGNOU (as a Programme Study Centre).

- Trainees from Department of Anesthesia for “Pre-hospital Technician Training Programme (PTT)” on social issues, leadership and motivational skills.
- The department faculty is involved in training of Resource Person for International Training Course for Eye Care programme managers at Madurai
- Guest faculty in Training of MPH Students at NCDC, New Delhi

### **Conference Presentations**

Dr. D Bachani presented in 5th Meeting of SAARC Technical Committee on Health & Population Activities organized by MoHFW on 6<sup>th</sup> Apr. 2015.

He also presented in 11<sup>th</sup> Annual Conference of Vision-2020 India organized by Vision 2020-India on 7<sup>th</sup> June 2015.

GOI Rep, Consultative Meet on Prevention & Management of NCDs organized by Govt. of Punjab on 1<sup>st</sup> July 2015.

He gave Key Note address in Regional Roundtable on Diabetes (Tertiary Care) organized by CII on 7<sup>th</sup> July 2015.

He was a Speaker, CVD Roadmap meeting, New Delhi organized by World Heart federation on 25<sup>th</sup> Sept 2015.

He was a Speaker, Cardiological Society of India: World Heart Day, Kolkata organized by CSI on 4<sup>th</sup> Oct 2015.

He was a GOI Rep, Workshop on Children’s Environmental Health organized by PHFI & WHO on 23<sup>rd</sup> -26<sup>th</sup> Nov 2015.

He was a GOI Rep, Workshop on Alcohol and Violence against Women organized by ICRW on 14<sup>th</sup> Dec 2015.

He gave a Key Note Speaker, International Conference on Physiotherapy in Public Health organized by IIPH on 19<sup>th</sup> Dec 2015.

He was a GOI Rep, Meeting on Prevention & Management of CVD organized by WHO on 21<sup>st</sup> – 23<sup>rd</sup> Dec 2015.

He presented the paper “Burden & Strategies for Prevention & Control of NCDs in SAARC Countries”, 5<sup>th</sup> Meeting of the SAARC Technical Committee on Health & Population Activities; Delhi; 6<sup>th</sup> April, 2015.

He presented another paper “Burden & Strategies for Prevention & Control of NCDs”, Sankalp Global Summit 2015: Session on Combating the threat of NCDs in India; New Delhi; 10<sup>th</sup> April, 2015.

He presented the paper “Convergence of NCD & Eye Care services”, 11<sup>TH</sup> Annual Conference of Vision 2020-India, Moradabad; 7<sup>th</sup> June 2015.

He presented the paper “National Response for prevention and control of CVD in India”, Cardiological Society of India: World Heart Day, Kolkata; 4 Oct. 2015.

He presented the paper “Burden of Non-communicable diseases on Public health”, International Conference on Physiotherapy & Public Health, Anand, 9 Dec 2015.

Dr Anita S Acharya was a guest speaker in Hands on Workshop on “Data analysis” organized by Symposium organized by IAPSM Delhi Chapter and Department of Community Medicine, Dept of Community Medicine, LHMC on 4<sup>th</sup>-5<sup>th</sup> Dec 2015.

Dr. Manish Kumar Goel was a guest speaker, Workshop on research Methodology organized by Dept. of Community Medicine, BPS Govt. Medical College for Girls, Khanpur Kalan, Sonapat, 2015. He was also a Resource person, Hands-on Workshop on Research Methodology organized by Dept. of Community Medicine, LHMC, New Delhi in December 2015.

Isha Goyal, S. Nagesh, Manish Kumar Goel, Harish Pemde, S.K. Rasia conducted Knowledge about non communicable disease’s risk factors in school going adolescents, 2<sup>nd</sup> National Conference of Family Medicine And Primary Care, 21-22 Nov ,2015, Indian Habitat Centre, New Delhi.

Self-perception of nutritional status among adolescents girls in urban area of New Delhi, Awarded BEST PAPER at XVIII Annual Conference, IAPSM UP &UK chapter, 9-10 Oct, 2015, Gorakhpur, UP.

A.Singh, A. S. Acharya and B. Dhiman conducted “Profile of common risk factors of Non communicable diseases in adults of an urban resettlement colony of Delhi” paper presented at XVIII Annual Conference IAPSM UP &UK State Chapter. BRD Medical college, Gorakhpur 9th -10th October 2015.

They also participated in “Awareness regarding diabetes and its complications among adults in an urban resettlement colony of east Delhi” paper presented at the 2nd National Conference of Family Medicine And Primary Care 2015, 21-22 November 2015, held at Delhi.

### **Other Significant Information**

Health Promotion Clinic for Adults >30 years at KSCH.

Service to the community  
Health Centers.

- Urban Health Center - Kalyanpuri
- Primary Health Center- Palam



- Primary Health Center- Mehrauli

Child Health Promotion Center (CHPC) and NCD screening clinic at KSCH, New Delhi.

## COMMUNITY MEDICINE (UCMS)

### Major Activities and Achievements

The faculties of this department are actively involved in teaching, research and patient care at primary level through three peripheral health Centres. Faculty members served on various administrative and scientific committees in the Institute; Invited as expert members of various scientific committees of the ICMR-INCLIN, World Health Organization, Government of India, GNCTD, NIPPCD. Faculty members also have provided expert advice to various universities/institutions on various aspects of teaching and research, delivered invited lectures, and published papers in high impact journals both national and international. Infectious disease, maternal & Child health, non-communicable diseases, Telemedicine and strengthening of health system are some of the examples of the core research areas of this department. Faculty members are continued to be reviewer for many major medical journals in the country and for a number of international medical journals.

### Honours/Distinctions

Bhasin S.K., Dr. Harcharan Singh Oration at 43<sup>rd</sup> Annual National Conference of Indian Association of Preventive and Social Medicine held at GMERS Medical College, Gandhinagar, 7<sup>th</sup> January 2016.

Sharma A.K., Best paper Award at ESRI User Conference, 3 December 2015.

Sharma, A.K., DHR Fellowship for Foreign University as a Visiting Scholar to University of Illinois, USA, April – June 2015.

### Publications

Dehghani, A., Kumar Bhasin, S., Dwivedi, S., & Kumar Malhotra, R. (2015). Influence of comprehensive life style intervention in patients of CHD. *Global Journal of Health Science*, 7(7), 6 -16.

Chhabra, P., & Gupta, A. (2015). Infant and young child feeding practices and its determinants in an urbanized village of Delhi. *International Journal of Medicine and Public Health*, 5(3), 228-231.

Sakthivel, S. P., Yujwal Raj, P., Mishra, S., & Sharma, A. K. (2015). Levels, trends and inter-regional variations in transfusion transmissible infection Positivity among blood donors in India: Evidence from India's national HIV program. *World Journal of AIDS*, 05(03), 217–225.

Kumar, V., Misra, S., Kaushal, S., Gupta, S., & Maroof, K. (2015). Janani Suraksha Yojana: Its utilization and perception among mothers and health care providers in a rural area of north India. *International Journal of Medicine and Public Health*, 5(2), 165-168.

Raja, J., & Bhasin, S. (2014). Health issues amongst call center employees, an emerging occupational group in India. *Indian Journal of Community Medicine*, 39(3), 175-177.

Jeyapal, D., Bhasin, S., Kannan, A., & Bhatia, M. (2015). Stress, anxiety, and depression among call handlers employed in international call centers in the national capital region of Delhi. *Indian Journal of Public Health*, 59(2), 95-101.

Lukhmana, S., Bhasin, S., Chhabra, P., & Bhatia, M. (2015). Family caregivers' burden: A hospital based study in 2010 among cancer patients from Delhi. *Indian Journal of Cancer*, 52(1), 146-151.

Kakkar, M., Dhole, T. N., Rogawski, E. T., & Chaturvedi, S. (2016). Public health laboratory surveillance and diagnosis of Japanese encephalitis: Time to revisit. *Indian Pediatrics*, 53(1), 33–35.

Chaturvedi, S. (2015). Reluctance to advance the age of measles Immunisation: Ethics of best bargain, policies of denial, and programs of Verticality. *Journal of Clinical Research & Bioethics*, 06(02), . doi:10.4172/2155-9627.1000216

Shah, D., Arora, S., Chaturvedi, S., & Gupta, P. (2015). Defining and measuring vulnerability in young people. *Indian Journal of Community Medicine*, 40(3), 193-197.

Sharma, A., & RuizMarilynO'Hara (2016). Application of GIS in public health in India: A literature-based review, analysis, and recommendations. *Indian Journal of Public Health*, 60(1), 51-58.

Kumar, V., Misra, S., Kaushal, S., Gupta, S., & Khan, A. (2015). A study on the effect of janani suraksha yojana on antenatal registration and institutional deliveries in the Agra district of Uttar Pradesh. *Indian Journal of Public Health*, 59(1), 54-57.

Upadhyay, M., Pal, D. K., & Tiwari, R. (2015). Evaluation of availability of physical facilities at the Subcentres in Mandla district of Madhya Pradesh, India. *Indian Journal of Public Health Research & Development*, 6(4), 314-318.

Upadhyay, M., Agarwal, A., & Agrawal, P. (2015). Prevalence of infant and Young Child feeding (IYCF) practices among children under Two years of age in Two colonies of north east Delhi: A comparative study. *Indian Journal of Public Health Research & Development*, 6(4), 319-323.

### **Research Projects**

Dr. Sanjay Chaturvedi

Co-Principal Investigator & Consortium Member, 2010-2016, "Foundational Work for a Brain to Society Surveillance System for Innovation in Behavioural, Public Health and Cross Sector Strategy to Prevent Childhood Obesity and Other Lifestyle Related Health Problems: A Canada-India Collaboration to Set a Life Course of Healthy Eating at Local, National and Global Level", funded by Canadian Institutes for Health Research-McGill University, Canada-ICMR-INCLIN.

Central Coordinating Team Member, 2013-2016, "Exploring potential association of all cause death and hospitalization with routine UIP vaccinations administered to a cohort of infants in Kerala and Tamil Nadu states of India", funded by WHO

Central Coordinating Team Member, 2013-2016, "Evaluation of HBNC and HBNC+ in Madhya Pradesh", funded by GoI-NIPI-INCLIN, 1,30,000.00 per year.

Dr. Pragti Chhabra, 2012-2015, "Maternal Near Miss in a tertiary hospital: Causes, Associated Factors and Outcome", funded by ICMR, Rs. 6,19,342/.

Dr. Madhu Upadhyay, 2014 – 2016, "Consultant for Monitoring and Evaluation of ICDS Projects in Delhi, as a part of State Monitoring Unit", sponsored by NIPPCD, Delhi, Rs. 1,30,000.00 per year.

### **Conference Presentations**

Dr. Sanjay Chaturvedi, Invited lecture on – “Societal and environmental drivers of Childhood Obesity in India”. In: National Seminar on “Anthropology of Cardio-metabolic Adversities” Delhi, 25 Sep. 2015.

### **Inter-Institutional Collaboration**

Dr. Sanjay Chaturvedi, Convener, GNCTD Steering Committee on Dengue Prevention and Control, 2016.

Dr. A K Sharma, Joint Managing Editor, Indian Journal of Public Health – 2016 to 2018.

## **DERMATOLOGY & STD (UCMS)**

### **Major Activities and Achievements**

Department was established in 1988 and was recognized for PG MD teaching in the year 2000 and first batch in take in 2001. At present 2 Director Professor, and 3 Professor are working. Initially 2 posts of PG sanctioned, further it increased to 3 in the year 2009. Department actively runs cohesive postgraduate teaching programme with regular case discussions, Seminars, Journal Club and academic presentation. The residents of department have got IADVL awards for best thesis and international fellowship at regular intervals. The faculty has been delivering guest lectures in international and national platforms. Many funded research projects from Govt. agencies are done in the department.

### **Honours/Distinctions**

Dr. Archana: Recipient of 1<sup>st</sup> Dermasource innovation award 2015, for contribution to the field of Dermatology.

### **Publications**

Dar, S. A., Akhter, N., Haque, S., Singh, T., Mandal, R. K., Ramachandran, V. G., Das, S. (2016). Tumor necrosis factor (TNF)- $\alpha$ -308G/A (rs1800629) polymorphism distribution in north India and its association with pemphigus: Case-control study and meta-analysis. *Autoimmunity*, 49(3), 179–187.

Grover, C., Khurana, A., Bhattacharya, S., & Sharma, A. (2015). Controlled trial comparing the efficacy of 88% phenol versus 10% sodium hydroxide for chemical matricectomy in the management of ingrown toenail. *Indian Journal of Dermatology, Venereology, and Leprology*, 81(5), 472-477.

Chhabra, N., Bhattacharya, S. N., Singal, A., Ahmed, R. S. & Verma, P. (2015) Profile of oxidative stress in response to treatment for type 1 leprosy reaction. *Lepr Rev.*, 86(1), 80-88.

Singal, A., & Pandhi, D. (2016). Lichen scrofulosorum and endometrial tuberculosis: A novel association. *International Journal of Dermatology*, 55(3), 322–324.

Singal, A., Daulatabad, D., Grover, C., Sharma, S., & Chhillar, N. (2015). Assessment of oxidative stress in patients with premature canities. *International Journal of Trichology*, 7(3), 91-94.

Vohra, S., Singal, A., & Sharma, S. B. (2015). Clinical and serological efficacy of topical calcineurin inhibitors in oral lichen planus: A prospective randomized controlled trial. *International Journal of Dermatology*, 55(1), 101–105.

Singal, A., Pandhi, D., Das, S., & Yadav, P. (2015). Comparative efficacy of continuous and pulse dose terbinafine regimes in toenail dermatophytosis: A randomized double-blind trial. *Indian Journal of Dermatology, Venereology, and Leprology*, 81(4), 363-369.

Singal, A., & Arora, R. (2015). Nail as a window of systemic diseases. *Indian Dermatology Online Journal*, 6(2), 67-74.

Daulatabad, D., Pandhi, D., & Singal, A. (2016). BCG vaccine for immunotherapy in warts: Is it really safe in a tuberculosis endemic area? *Dermatologic Therapy*, 29(3), 168–172.

Grover, C., Dhawan, A., Bhattacharya, S., Kaur, I., Das, S., & Kashyap, B. (2015). A cross-sectional study of anti-hepatitis b antibody status in STD patients: Need for improved immunization. *Indian Journal of Dermatology*, 60(3), 305.

### **Research Projects**

Dr. Deepika Pandhi, 2015-2017, “To determine anti-fungal susceptibility of dermatophytes causing superficial fungal infection to Fluconazole, Terbinafine, Griseofulvin Itraconazole, Voriconazole”, funded by IADVL.

Dr. Deepika Pandhi, “Clinico-etiological study of hand eczema and analysis of cost of illness and impact of disease on quality of life”. Intra-Mural Research Grant.

### **Conference Organized**

3<sup>rd</sup> ISND and 4<sup>th</sup> ONYCHOCON-2015, organized by department of Dermatology and STD, UCMS and GTB Hospital under the aegis of *Nail Society of India* on 20-22<sup>nd</sup> November, 2015 at Delhi, India.

Pre-Conference Nail Surgery Workshop, organized under the aegis of Nail Society of India on 19<sup>th</sup> November, 2015 at Conference Hall, UCMS and GTB Hospital, Delhi, India.

### **Conference Presentations**

Dr. Archana Singal was an Invited faculty for the “Symposium SY33: Nails” during the proceedings of 23<sup>rd</sup> World Congress of Dermatology (WCD), Vancouver Canada (8<sup>th</sup>-13<sup>th</sup> June, 2015). Delivered a talk on ‘Interesting Nail Cases from India’.

She was an Invited faculty for the “Symposium D2T4; Non-STI Skin Infections’ during the proceedings of 24<sup>th</sup> European Academy of Dermatology & Venereology (EADV) Congress, Copenhagen (Denmark) held during 6<sup>th</sup>-11<sup>th</sup> Oct, 2015. Delivered a talk on ‘Hidden Mycoses’.

She was an Invited faculty for “Symposium S045:Nails” during the proceedings of 73<sup>rd</sup> Annual meeting of American Academy of Dermatology at the Moscone Centre, San Francisco, CA, March 20-24, 2015. Delivered a talk on “Utility of Nail Surgery and Lasers in the treatment of Onychomycosis.

She was an Invited faculty for “Onychoscopy: How much it add!” during the proceedings of 3<sup>rd</sup> International Summit for Nail diseases and 4<sup>th</sup> ONYCHOCON, 20-22<sup>nd</sup> November, 2015 organized by Nail Society of India and Department of Dermatology, UCMS and GTB Hospital at Delhi.

She was an Invited faculty for the “Symposium D2T4; Non-STI Skin Infections’ during the proceedings of 24<sup>th</sup> European Academy of Dermatology & Venereology (EADV) Congress, Copenhagen (Denmark) held during 6<sup>th</sup>-11<sup>th</sup> October, 2015. Delivered a talk on “Hidden Mycoses”.

**Faculty Strength:** Director Professor-2; Professor-3

## DERMATOLOGY & STD (MAMC)

### Major Activities /Achievements

Department of Dermatology & STD was established in the year 1962 when Maulana Azad Medical College was started. Department has fully equipped outpatient department catering to an average 600 patients per day. Minor O.T. services are also available daily. In addition, for the care of inpatients the department has two wards (separate for males, females and children) with a total strength of 41 beds. It also runs a full-fledged operation theatre 2 days a week where all minor and major dermatological surgeries including laser procedures are being carried out. Recently we have added state of art operating chair for the minor OT in the department. We are carrying out non-cultured melanocyte transfer technique for treatment of stable vitiligo. All latest chemical peels are being carried out in the department. A pilot project in collaboration with IGIB is being carried out on antibiotic resistance in acne patients.

The department also runs daily and weekly special clinics. The department is also having a fully equipped seminar cum teaching hall with state of the art audio-visual facility including computer and scanning apparatus. It also has a regularly upgraded Departmental Library.

The department has the unique distinction of being the only medical college in North India with 4 state of the art lasers (Fractional Er Yag, IPL, Nd Yag (Q sw) and CO<sub>2</sub>). We are in the process of acquiring Fr CO<sub>2</sub> laser.

Research work is being actively carried out with many publications in reputed international and national journals having been published this year as can be seen in the attached report. The faculty has achieved various honors in many reputed forums. Apart from that, the department has been actively engaged in service to the community.

### Honors/Distinctions

Dr. Vijay Kumar Garg was awarded IADVL Systopic Oration award on “Sjs-Ten A Critical Analysis And Effective Modification Of Scorten & A Strong Recommendation For Adopting Conservative Management” at 44th National Conference of Indian Association of Dermatologists, Venereologists and Leprologist during Dermacon 2016, 21st-24th January 2016, Mangalore, India.

He was also awarded Appreciation award by IADVL DSB at Annual Cuticon 2015 held at Hotel Le Meridian, New Delhi, on 6<sup>th</sup> December 2015. He is an an Elected Chairman for Pigmentarycon going to be held in April 2016

### Publications

Sarkar, R., Ranjan, R., Garg, S., Garg, V. K., Sonthalia, S. & Bansal, S. (2016) Periorbital Hyperpigmentation: A Comprehensive Review. *J Clin Aesthet Dermatol.*, 9(1), 49-55.

Sardana, K., Gupta, T., Kumar, B., Gautam, H., & Garg, V. (2016). A cross-sectional pilot study of antibiotic resistance in *Propionibacterium acnes* strains in Indian acne patients using 16s-rNA polymerase chain reaction: A comparison among treatment modalities including antibiotics, benzoyl peroxide, and isotretinoin. *Indian Journal of Dermatology*, 61(1), 45-52.

Aggarwal, P., Bhattar, S., Sahani, S. K., Bhalla, P., & Garg, V. K. (2016). Sexually transmitted infections and HIV in self reporting men who have sex with men: A two-year study from India. *Journal of Infection and Public Health*, 9(5), 564–570.

Sinha, S., Gupta, C., Sahoo, B., & Garg, V. (2016). Erythroderma secondary to lichen planus in a child. *Indian Journal of Dermatology, Venereology, and Leprology*, 82(1), 89-91.

Goel, S., Marwah, A., Kaushik, S., Garg, V., & Gupta, S. (2015). Role of serum interleukin-6 in deciding therapy for multidrug resistant oral lichen planus. *Journal of Clinical and Experimental Dentistry*. doi:10.4317/jced.52376

Arora, P., Sardana, K., Bansal, S., Garg, V., & Rao, S. (2015). Entomophthoromycosis (basidiobolomycosis) presenting with “saxophone” penis and responding to potassium iodide. *Indian Journal of Dermatology, Venereology, and Leprology*, 81(6), 616-618.

Madan, A., Sardana, K. & Garg, V. K. (2015) Adams Oliver Syndrome. *Indian Pediatr*, 52(7), 633-634.

Relhan, V., Goel, K., Kochhar, A., Garg, V., & Wadhwa, B. (2015). Vitamin D and skin diseases: A review. *Indian Journal of Dermatology, Venereology, and Leprology*, 81(4), 344-355.

Sardana, K., Gupta, T., Garg, V. K., & Ghunawat, S. (2015). Antibiotic resistance to *Propionobacterium acnes*: Worldwide scenario, diagnosis and management. *Expert Review of Anti-infective Therapy*, 13(7), 883–896.

### **Research Projects**

Following projects were carried out in the department:

“Clinicohistopathological and immunological study in alopecia areata”.

“Study of clinical profile and contact sensitivity to cosmetic allergens in melisma”.

“Clinical profile and Serum Vitamin B12, Serum Homocysteine and MTHFR gene polymorphism in Vitiligo”.

“To study clinical features and serum zinc and copper in vitiligo”.

“Clinico-pathological study with cytokine evaluation in psoriasis”.

### **Conference Presentations**

Dr. Rashmi Sarkar was invited faculty to speak at the “International Peeling” session at 74th Annual AAD at Washington DC from 2nd-5th March 2016; invited faculty to speak at 4th International Summer Academy of Practical Dermatology at Munich from 28 to 1st July 2015 on “Childhood Vitiligo” and “Melasma” in the “Female Skin Disorders” session; invited faculty at 23rd World Congress of Dermatology at Vancouver from 7<sup>th</sup> to 11<sup>th</sup> May 2015 to speak on “Common Neonatal Dermatoses”.

**Faculty Strength: 6**

## **FORENSIC MEDICINE (LHMC)**

### **Publications**

Behera, C., Krishna, K., Bhardwaj, D. N., Rautji, R., & Kumar, A. (2015). A case of accidental fatal aluminum phosphide poisoning involving humans and dogs. *Journal of Forensic Sciences*, 60(3), 818–821.

Meena, M.C, Naik, S. K., Mittal, S. & Band, R. (2015) Fatal Dog bite injury-A case report. *International J Med Tox For Med*, 5(3), 64-67.

Meena, M. C., Panchal, K. & Rani, M. (2015) Sudden death in strabismus surgery after local anaesthesia-A case report. *J Emergency Practice Trauma*, 1(3), x-x.

Meena, M. C., Mittal, S., Chouksey, V. K. & Rani, Y. (2015) Sex determination from fourth rib by osteometric analysis. *Int J Forensic Sci Pathol*, 3(7), 148-151.

### **Research Projects**

Dr. Sachin Mittal, "A postmortem study of renal artery stenosis in adults".

Dr. Rishabh Kumar, "HBV and HCV screening in claimed and unclaimed dead bodies at autopsy".

Dr. Vivek Chouksey, "A Postmortem study of socio-demographic profile and organ weights in cases of suicide".

### **Conference Presentations**

Dr. Mukta Rani, Professor Delegate, presented paper on 'Suicide Note Analysis' 14<sup>th</sup> Annual National conference of Indian Congress of Forensic Medicine and Toxicology, Department of Forensic Medicine SGT University, Gurgaon 13<sup>th</sup>-14<sup>th</sup> Nov., 2015.

Dr. S.K. Naik, Professor, Guest lecture on 'Maintaining dignity of the Dead-A challenge for all' 14<sup>th</sup> Annual National conference of Indian Congress of Forensic Medicine and Toxicology Department of Forensic Medicine SGT University, Gurgaon 13<sup>th</sup>-14<sup>th</sup> Nov, 2015.

Dr. B.L. Chaudhary, Associate Professor Delegate, presented paper on 'Corporal punishment on children & Indian Law' 7<sup>th</sup> International Conference on Medical Negligence & Litigation in Medical Practice Department of Forensic Medicine, held at Hyderabad on Jan 30-31<sup>st</sup> 2016.

Dr. Sachin Mittal, PG IIIrd year Delegate, presented paper on 'Corridor roof causing almost decapitation-A rare case report' 37<sup>th</sup> Annual National Conference of IAFM Department of Forensic Medicine, 8<sup>th</sup>-10<sup>th</sup> Jan, 2016.

**Faculty Strength:** Permanent - 8 ; Ad-hoc- 1

## **MICROBIOLOGY (MAMC)**

### **Major Activities and Achievements**

The Department of Microbiology at Maulana Azad Medical College is at the forefront of teaching the principles and art of Clinical Microbiology to Undergraduate, Postgraduate and Ph.D students and in providing diagnostic and prognostic laboratory services to the patients referred from Lok Nayak Hospital, New Delhi. In addition, the department organizes teaching and training programmes for BDS and B.Sc. (Nursing) students and short-term training courses for M.Sc (Microbiology & Biotechnology), B.Sc (Biotechnology & Biomedical sciences), B. Tech (Biotechnology) and Diploma MLT students at other institutions. The HIV Laboratory in the department functions as a State Reference Laboratory (SRL) for HIV and monitors the quality of HIV testing of the 26 linked ICTCs and PPTCTs as per the NACO guidelines. The HIV Laboratory also provides facility for absolute CD4-T-Lymphocyte count to not only the patients registered at the ART Center at Lok Nayak Hospital, but also the ART Centre at Guru Teg Bahadur Hospital, Dilshad Garden. In addition, the HIV Laboratory houses the Integrated Counseling & Testing Centre, which provides laboratory testing and counseling services for HIV to direct walk-in and referred clients. The HIV testing performed by rapid tests has been accredited by National Accreditation Board for Testing & Calibration Laboratories (NABL) as per International Standard, ISO15189:2012. In addition, the STD lab of the department is a regional STI reference, research and training laboratory and the phage lab in the department is the National Staphylococcal Phage Typing Centre.

## Honours/Distinctions

Dr. B. Uppal: Recipient of Alumnus Award (MAMC).

Dr. S. Kumar: Best Free Poster Award 2015, 7th Annual Conference, Indian Association of Medical Microbiologists, Delhi Chapter, New Delhi, India

## Publications

Baveja, C. P. (2015) *A textbook of Microbiology* 5<sup>th</sup> Edition, Arya Publications, Delhi.

Baveja, C. P. (2015) *A textbook of Microbiology for Dental Students*, 5<sup>th</sup> Edition Arya Publications, Delhi.

Baveja, C. P. (2015) *A textbook of Microbiology for MLT*, 2<sup>nd</sup> Edition Arya Publications, Delhi.

Baveja, C. P. (2015) *A textbook of Microbiology in Nutshell*, 2<sup>nd</sup> Edition Arya Publications, Delhi.

Kumar, S. (2015) (ed), *A Textbook of Microbiology for BSc Nursing*, Jaypee Brothers Medical Publishers (P) Ltd, New Delhi, 1<sup>st</sup> Edition.

Kumar, S. (2015) (ed), *Textbook of Microbiology for Diploma in General Nursing & Midwifery Students*, Jaypee Brothers Medical Publishers (P) Ltd, New Delhi, 1<sup>st</sup> Edition.

Rajeshwari, K., Uppal, B., Singh, R., Malakar, A. K., & Chikara, S. K. (2015). Draft genome of Escherichia coli O146 isolate from Maulana Azad medical college, New Delhi, India. *Genome Announcements*, 3(1), e01515–14. doi:10.1128/genomea.01515-14.

Rajeshwari, K., Uppal, B., Tiwari, G. & Mahato, A. K. (2015) Multidrug resistant Enteropathogenic E. coli Diarrhea in children. *American J Res Communication* 3(9), 27-28.

Uppal, B., Aggarwal, P., Perween, N., & Sud, A. (2015). Seroprevalence of Toxoplasma among HIV infected and HIV non-infected individuals in north India. *Asian Pacific Journal of Tropical Disease*, 5, S15–S18.

Uppal, B. (2015). A comparative study of bacterial and parasitic intestinal infections in India. *JOURNAL OF CLINICAL AND DIAGNOSTIC RESEARCH*. doi:10.7860/jcdr/2015/11965.5619

Chakravarti, A., Roy, P., Ashraf, A., & Siddiqui, O. (2015). Trends in the epidemiology of hepatitis B virus infection at a tertiary care hospital: A 10-year retrospective analysis. *Indian Journal of Gastroenterology*, 34(2), 189–190.

Karra, V. K., Gumma, P. K., Chowdhury, S. J., Ruttala, R., Polipalli, S. K., Chakravarti, A., & Kar, P. (2015). IL-18 polymorphisms in hepatitis B virus related liver disease. *Cytokine*, 73(2), 277–282.

Bhalla, P., Rawat, D., Garg, V., Sardana, K., Chakravarti, A., & Bharara, T. (2015). Rising trend of antimicrobial resistance among Neisseria gonorrhoeae isolates and the emergence of N. Gonorrhoeae isolate with decreased susceptibility to ceftriaxone. *Indian Journal of Medical Microbiology*, 33(1), 39-42.



Mathur, N. B., Kharod, P., & Kumar, S. (2015). Evaluation of duration of antibiotic therapy in neonatal bacterial Meningitis: A randomized controlled trial. *Journal of Tropical Pediatrics*, 61(2), 119–125.

Kumar, S., Kapoor, S., & Saigal, S. (2015). Hemorrhagic encephalitis caused by *Mycoplasma pneumoniae* in an 11-year-old boy: A rare case report. *Indian Journal of Medical Microbiology*, 33(3), 463-464.

Jain, V., Prakash, S., Kumar, S., & Jha, H. (2015). Rapid emergence of New Delhi Metallobetalactamase-1 among clinical isolates from blood - a comparative study over two periods, 12 months apart. *Indian Journal of Medical Microbiology*, 33(4), 609-610.

### **Research Projects**

Dr. C.P. Baveja, “State Reference Laboratory (SRL) for HIV Testing as part of External Quality Assessment Program, under NACO and DSACS”.

Dr. C.P. Baveja, “Regional STI Reference, Research and Training Center laboratory”.

Dr. Anita Chakravarti, “Prospective dengue seroprevalence study in 5 to 10 year-old children in India. Sanofi Pasteur”.

Dr. Anita Chakravarti, “Mutational Analysis of IRES, E2 and NS5A Region of HCV and Their Relationship to Pegylated Interferon Ribavirin Therapy Responses. Indian Council of Medical Research”.

Dr S. Kumar, “Developing a neonatal sepsis registry and studying molecular epidemiology of bacterial isolates and their antimicrobial resistance -A multicenter study. Indian Council of Medical Research” funded by ICMR.

### **Conferences Organized**

Organized Pre-conference Workshop on “Designing, Implementation and Monitoring of an Infection Control Programme” held on 21<sup>st</sup> March, 2015 at the Department of Microbiology, Maulana Azad Medical College as a part of IFIC-HISICON, 2015.

Organized training programme for Doctors from various parts of India perusing PG Diploma course in HIV by IGNOU in December 2015.

### **Conference Presentations**

Dr. C.P. Baveja presented paper at 6<sup>th</sup> International Congress of European Microbiologists held at Maastericht, Netherlands in June, 2015.

### **Inter-Institutional Collaboration**

As part of an inter-institutional collaboration among the four medical colleges under University of Delhi, the final year postgraduate students from our college, as well those from other institutes are rotated among the Department of Microbiology of these colleges for a post graduate teaching and training programme, under which special lectures and exercises are arranged by each college depending on its areas of expertise and specialization.

**Faculty Strength:** Permanent: 5

## MAULANA AZAD MEDICAL COLLEGE

### Major Activities and Achievements

This year, the college had the distinction of holding two unique and path-breaking conferences; National Conference of Health Professionals Education and International Symposium on Impact of Chemical Exposures on Health and Environment. Neuro Surgery OT started in LNH- Anaesthesia. Cytogenetics and molecular genetics lab: Fluorescence Microscope with FISH/ Cytogenetics software (Anatomy). Cryostat for Histology Lab (Anatomy) & Magnoscope for Fetal Autopsy lab (Anatomy). A highly specialized molecular diagnostic facility for detection of genetic abnormalities in different hematological malignancies and other solid cancers, viz. BCR-ABL translocation, JAK2 mutation, EGFR mutation etc. has been functional in the department. (Biochemistry).

RHTC Barwala, Monitoring of Diabetic patients for blood glucose level started with the help of new Glucometer, leading to better management and compliance of diabetic patients. (Community Medicine); Center for Speech and Hearing rehabilitation for post cochlear implant patients. (ENT), 3Tesla MR System, (Radiology); HDR Brachytherapy and Simulator with Cone Beam CT. Radiotherapy; Pediatric radiotherapy Unit (Radiotherapy).

- Surgical skills lab upgraded with installation of new generation endotrainers. (GI surgery, GIPMER)
- Ultrathin Video Endoscopy for Per-oral Direct Cholangioscopy. (Gastroenterology, GIPMER)

Library Development-Automation and Security: Library has been automated with 'LibSys' automation software. Data entry of all books, journals and theses has been completed and automated circulation of documents is ready to begin. All the books, journals and theses are barcoded and radio-frequency (RF) tagged, magnetic Detection Gate of 3M (USA) has been installed in the Library for ensuring the security even further

- Digitization: The users can access these journals at the library website [www.library.mamc.ac.in](http://www.library.mamc.ac.in). We have access 030e-books also.
- ERMED membership:ERMED (Electronic Resources of Medicine) membership has been renewed this year too, and our users have access to thousands of medicine and allied disciplines journals through this consortium.

### Honors/Distinctions

Dr. R. B. Ahuja, Burns and Plastic- Outstanding Teacher of the Year award from Association of Plastic Surgeons of India.

Dr. Prabhat Shrivastava: Received “Presidents Appreciation Award” 2015 of National Academy of Burns-India for “Outstanding Services” rendered as Secretary of the Association for 6 years (2009-2015), at the Annual conference NABICON 2015, held at Ludhiana. 20th-22nd Feb 2015.

Dr. Siddarth Ramji received the Delhi State Health Award for Outstanding Contribution to Health in 2015.

### Publications

Uma, B., Kochhar, A., Verma, U., & Rautela, R. (2015). Anesthetic management for bronchoscopy and debulking of obstructing intratracheal tumor. *Saudi Journal of Anaesthesia*, 9(4), 484.

Sethi, M. (2015). Morphometrical analysis of developing Cochlear ganglion Neurons: A light microscopic fetal study. *JOURNAL OF CLINICAL AND DIAGNOSTIC RESEARCH*. doi:10.7860/jcdr/2015/11323.5997

Javid, J., Mir, R., Julka, P. K., Ray, P. C., & Saxena, A. (2015). BAX G(-248)A Gene Polymorphism and its association with risk of non-small cell lung Cancer—A case control study. *Open Journal of Apoptosis*, 04(02), 47–58.

Ahuja, R. B., Chatterjee, P., & Deraje, V. (2015). A critical appraisal of nonsurgical modalities for managing hypertrophic scars and keloids. *Formosan Journal of Surgery*, 48(2), 49–56.

Kohli, C., Kumar, R., Meena, G., Singh, M., & Ingle, G. (2015). A study on knowledge and preventive practices about mosquito borne diseases in Delhi. *MAMC Journal of Medical Sciences*, 1(1), 16.

Bansal, S., Garg, V., Wadhwa, B., & Khurana, N. (2015). Acquired port-wine stain in an adult male: First reported case from India with review of literature. *Indian Journal of Dermatology*, 60(1), 104.

Jain, A. (2016). Isolated CNS blast crises in chronic myeloid Leukaemia presenting as Hypertrophic Pachymeningitis and bilateral optic neuritis: A case report. *JOURNAL OF CLINICAL AND DIAGNOSTIC RESEARCH*. doi:10.7860/jcdr/2016/15813.7045.

Uppal, B. (2015). A comparative study of bacterial and parasitic intestinal infections in India. *JOURNAL OF CLINICAL AND DIAGNOSTIC RESEARCH*. doi:10.7860/jcdr/2015/11965.5619.

### Research Projects

Dr. Ashok Kumar, “Vitamin D supplementation in Pregnancy”.

Dr. Suneela Garg, “A Prospective study of Magnitude of Domestic Violence in Pregnancy”.

Dr. Alpna Saxena, “A study of Genetic alterations (role of microRNA) in breast cancer patients”.

Dr. B.C. Koner, DST project entitled “Effect of pesticides on insulin signaling in 26 myotube”

Dr. M.M Singh, “Healthcare facility preparedness and knowledge attitude and practices among Healthcare providers regarding gender based violence in Delhi”

**Faculty Strength:** Permanent: 275; Temporary Faculty: 5

### Other Significant Information

Patents Filed/Granted: “First complete whole genome sequencing and annotation of the genome of enteropathogenic *Escherichia coli* serotype 0146 named as MAMC18 strain” (after the institution and ward 18 of Lok Nayak Hospital where the patients was admitted).

#### Extension and Outreach work

Number of campus organized in the surrounding areas.	97
Numbers of people enrolled/covered in the camps	6900
Number of students who worked in the camps	770
Total numbers of hours dedicated to the camps	610 hrs.

#### Student numbers under exchange programme

Undergraduate inbound/outbound Exchange Students	01
Graduate/Postgraduate inbound/ outbound Exchange Students	01

- Two new Lecture Theater created the seating capacity of 300 with teleconferencing facility

- New Three Floor hostel created
- Creation of CAL (Computer Aided Laboratory) under process
- Providing Wi-Fi facility in Library area is under process

## **MEDICINE (UCMS)**

### **Honours/ Distinctions**

A. Aggarwal

Fellowship of Indian College of Physicians

Fellowship of Indian Society of Electrocardiology

O.P. Kalra

B C Roy Award.

S. V. Madhu

Chikitsa Bhushan Award by Delhi Medical Association in 2016

Annual oration (2015) of Research Society for the Study of Diabetes in India, West Bengal Chapter

Presidential oration 2015 by Research Society for the Study of Diabetes in India, Rajasthan & Gujarat Chapter

Presidential oration 2015 by Research Society for the Study of Diabetes in India, Punjab & Chandigarh Chapter.

Prof. Sam G.P. Moses

RSSDI presidential oration at the jothydev's professional education forum annual convention 2015

### **Publications:**

Sharma, V. (2015). Helicobacter pylori: Does it add to risk of coronary artery disease. *World Journal of Cardiology*, 7(1), 19-25.

Aggarwal, A., Srivastava, S., Agarwal, M., & Dwivedi, S. (2015). Premature graying of hair: An independent risk marker for coronary artery disease in smokers - A retrospective case control study. *Ethiopian Journal of Health Sciences*, 25(2), 123-128.

Aslam, M., Aggarwal, S., Sharma, K. K., Galav, V., & Madhu, S. V. (2016). Postprandial Hypertriglyceridemia predicts development of insulin resistance glucose intolerance and type 2 diabetes. *PLOS ONE*, 11(1), e0145730. doi:10.1371/journal.pone.0145730.

Garg, S., Gupta, S., Mobeen, M. S., & Madhu, S. V. (2016). Effect of obesity and glycated hemoglobin on oxygen saturation in ambulatory type 2 diabetic individuals: A pilot study. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*, 10(3), 157-160.

Weaver, L. J., & Madhu, S. V. (2015). Type 2 diabetes and anxiety symptoms among women in New Delhi, India. *American Journal of Public Health, 105*(11), 2335–2340.

Siddiqui, A., Madhu, S. V., Sharma, S. B., & Desai, N. G. (2015). Endocrine stress responses and risk of type 2 diabetes mellitus. *Stress, 18*(5), 498–506.

Weaver, L. J., Worthman, C. M., DeCaro, J. A., & Madhu, S. V. (2015). The signs of stress: Embodiments of biosocial stress among type 2 diabetic women in New Delhi, India. *Social Science & Medicine, 131*, 122–130.

Madhu, S. (2015). World diabetes day 2015: Healthy living & diabetes. *Indian Journal of Medical Research, 142*(5), 503-506.

Kalra, S., Madhu, S., & Bajaj, S. (2015). Sulfonylureas: Assets in the past, present and future. *Indian Journal of Endocrinology and Metabolism, 19*(3), 314-316.

Madhu, S. V., Saboo, B., Makkar, B. M., Reddy, G. C., Jana, J., Panda, J. K., ... Panikar, V. (2015). RSSDI clinical practice recommendations for management of type 2 diabetes Mellitus, 2015. *International Journal of Diabetes in Developing Countries, 35*(S1), 1–71.

### **Research Projects**

S. V. Madhu

“Registry of people with Diabetes in India with young age at Onset”, Phase II, grant of Rs. 29.55 lacs.

“Role Of Yoga And Fenugreek In Prevention Of Type 2 Diabetes Mellitus – The Indian Prevention Of Diabetes Study (IPDS)”, Phase II, grant of Rs. 15 lacs.

“CLOCK gene expression and Postprandial hypertriglyceridemia in healthcare shift workers” grant of Rs. 17.44 lacs.

“Role of genetic polymorphism of reninangiotensin aldosterone System on the reno-protective efficacy Of angiotensin converting enzyme inhibitors In patients with diabetic nephropathy” grant of Rs. 31.87 lacs.

“Innovative M-health led Participatory Approach to Comprehensive Screening and Treatment of Diabetes (IMPACT Diabetes)” funded by EFSD.

**Faculty Strength:** Permanent: 09

## **OBSTETRICS & GYNAECOLOGY (MAMC)**

### **Major Activities and Achievements**

Fellowship of National Board in “Reproductive medicine” was started in the dept in this year. The candidate who ranked first in entire country gave the choice for IVF & Reproductive Biology Centre, Department of Obstetrics and Gynaecology, MAMC.

“18<sup>th</sup> practical course & CME in OBGY” was conducted by the dept. of OBGY in October 2015. In this course from all over India more than 300 postgraduate students came and the entire faculty gave lectures and case discussions. A book title “Drugs used in pregnancy” was published from the dept. There were 221 IUI procedures done for infertile patients with success rate of 15%. During this year 213 cases of IVF/ICSI procedure were done with success rate of 42-45%. Total 76 no of ICSI done and Cryo ET done in 76 cases. Total numbers of 756 major gynecological surgeries were performed. Total 1200 ultrasonography was done.

## **Publications**

Prasad, S., Bassi, R., Kumar, Y., & Kumar, A. (2015). Treatment options of endometriosis prior to in vitro fertilization/intracytoplasmic sperm injection cycles to improve conception rate. *Taiwanese Journal of Obstetrics and Gynecology*, 54(3), 316–318.

Prasad, S., Kumran, A. & Hajela, S. (2016) in book: Drugs in Obstetrics and Gynecology, Edition: 1/e, Chapter: Ovulation Induction Drugs, Publisher: Jaypee, Editors: Ashok Kumar, Krishna Agarwal, Sudha Prasad, 264-275.

Sharma, S., Kumar, A., & Prasad, S. (2015). Current scenario of vitamin D status during pregnancy in north Indian population. *The Journal of Obstetrics and Gynecology of India*, 66(2), 93–100.

Singh, N., Tripathi, R., Mala, Y. M. & Batra, A. (2015) Diagnosis of cornual pregnancy by three-dimensional ultrasonography and successful management by methotrexate therapy despite very high beta HCG levels. *Journal of Diagnostic and Clinical Research*, 9(1), QD12–QD13.

Sahu, L., Yadav, P., & Tempe, A. (2015). Randomized comparative study between short duration (4 hour) vs. 24 hour post-partum magnesium sulphate therapy in severe preeclampsia. *International Journal of Reproduction, Contraception, Obstetrics and Gynecology*.doi:10.18203/2320-1770.ijrcog20150089

Tempe, A., & Kumari, G. (2015). Should abnormal vaginal flora in 2nd Trimester of pregnancy be treated to prevent Preterm labor. *MAMC Journal of Medical Sciences*, 1(2), 64-68.

Rathore, D. K., Nair, D., Raza, S., Saini, S., Singh, R., Kumar, A., ... Wadhwa, N. (2015). Underweight full-term Indian Neonates show differences in Umbilical cord blood Leukocyte Phenotype: A cross-sectional study. *PLOS ONE*, 10(4), e0123589. doi:10.1371/journal.pone.0123589

Bhilwar, M., Lal, P., Sharma, N., Bhalla, P., & Kumar, A. (2015). Prevalence of reproductive tract infections and their determinants in married women residing in an urban slum of north-east Delhi, India. *Journal of Natural Science, Biology and Medicine*, 6(3), 29.

Kumar, A., Sharma, A. K., Mittal, S., & Kumar, G. (2014). The relationship between body mass index and bone mineral density in Premenopausal and Postmenopausal north Indian women. *The Journal of Obstetrics and Gynecology of India*, 66(1), 52–56.

## **Research Projects**

Dr. Sudha Prasad, “To study the effect of counseling with Yoga based stress management on the clinical pregnancy rate and uterine artery flow parameters in women undergoing assisted reproduction” funded by ICMR.

Dr. Ashok Kumar, “Vitamin-D supplementation in pregnancy” funded by UGC.

Dr. Ashok Kumar, “Development of prediction model for preeclampsia in diabetic pregnant women” funded by ICMR.

### **Conferences Organized**

Eighteenth Practical Course & CME 2014 held at Maulana Azad Medical College, New Delhi (9th -11th October, 2015). Chairperson Dr. Sudha Prasad and Secretary Dr. Ashok Kumar.

First maternal and fetal medicine workshop conducted by dept of Obs & Gyn from 6<sup>th</sup>-7<sup>th</sup> March 2016. Chairperson Dr. Reva Tripathi and Secretary Dr. Asmita M Rathore.

### **Conference Presentations**

Dr. Sudha Prasad delivered a talk on “Role of Gynecologist as a counselor in Adult education” to students of Kirori Mal College, DU on 26<sup>th</sup> March 2015. Delivered a talk on “Luteal phase support on IUI & ART cycles” at Live Workshop on ART Techniques held on 12<sup>th</sup> July, Ludhiana.

She also delivered a talk on “Basics of Assisted Reproductive Techniques” on 14<sup>th</sup> August at IGIMS, Patna. Delivered a talk on “Luteal phase support on IUI & ART cycles” on 30<sup>th</sup> August at JLN auditorium at AIIMS, New Delhi.

She delivered a talk on “Ovulation Trigger in IUI & ART on Embryology ISAR on 5<sup>th</sup> September, New Delhi. Delivered talk on Female Reproduction 2 at ESHRE Embryology certification preparatory course on 2<sup>nd</sup> December 2015.

She also gave a talk on “Semen analysis and its interpretation” at IMA NATCON – 2015 on 27<sup>th</sup> December, New Delhi. Delivered a talk on “Repeated failure of ovulation trigger” on 28<sup>th</sup> October 2015 in New Delhi. Delivered a talk on “Improving implantation on fresh versus frozen embryo transfer” at Fertivision 2015 on 5<sup>th</sup> December 2015 in Delhi.

She gave a talk on “Obstetrics risk assessment in IVF” in World conference on critical care in Obstetrics in 12 to 14<sup>th</sup> February 2016. Delivered a talk on “OHSS- Have you found a solution? At Vistas of Gynae endoscopy and infertility at Jaypee Hospital on 6<sup>th</sup> March 2016.

## **OBSTETRICS & GYNAECOLOGY (UCMS)**

### **Major Activities and Achievements**

During this year our department has partially shifted to the new MCH block. We are soon going to start MCTS (Mother & child tracking system). Besides several awards, like previous years the department bagged the prestigious R.D. Pandit Award for best thesis in Obstetrics & Gynecology in India for the record 12th time. Besides this our faculty members were invited for various national and international conferences. The department conducted monthly community awareness lectures under the aegis of NARCHI Delhi during this period. Cervical and breast cancer awareness week was organized from 4-11th March 2016.

### **Honours/Distinctions**

Neerja Goel & M. Swami, Bronze medal, “Desogestrel versus LNG-IUS in Perimenopausal women as a contraceptive method: a randomized prospective interventional trial”, 37<sup>th</sup> AOGD on 31<sup>st</sup> & 1<sup>st</sup> Nov 2015 at Delhi.

Kiran Guleria & N. Sharma, Gold medal, “Role of Oxidative Stress and Anti-Oxidant Gene in Preclampsia with Reference to Organochlorine : A Case –Control Study”, 37<sup>th</sup> Annual AOGD conference, IHC Delhi. 31<sup>st</sup> Oct. – 1<sup>st</sup> Nov. 2015.

Bindiya Gupta won a Second prize Poster (Sneha Shree, Gupta B, Rajaram S Genital tuberculosis: unusual presentations), 22<sup>nd</sup> Annual conference of NARCHI, Delhi. branch. 22<sup>nd</sup> & 23<sup>rd</sup> August 2015.

Second prize (Gupta B, Rajaram S, Sathija PK, Arora VK, Goel N. Evaluation of p16/ki67 in cervical cytology smears), North zone Young Gynae oncology session. PGI Chandigarh 18th October 2015.

Shalini Rajaram & Sathija P. K., Silver Medal (Evaluation of Biomarkers P16INK4a/Ki-67 In Cervical Cytology for Diagnosis of Cervical Intraepithelial Neoplasia), 37th AOGD, 31st Oct & 1<sup>st</sup> Nov Delhi 2015.

Sharma Richa, FOGSI Corion Junior award 2015, 59th ACOG, 15th to 17th Jan 2016, Agra.

Suneja Amita, Meena P., FOGSI R D PANDIT Award (Endocervicopy with office Hysteroscope for complete visualisation of Transformation Zone in cases of Invisible Squamous Columnar Junction on Colposcopy), 59th ACOG, 15th to 17th Jan 2016, Agra

### **Publications**

Jain, S., Guleria, K., Suneja, A., Vaid, N. B., & Ahuja, S. (2016). Use of the Sequential organ failure assessment score for evaluating outcome among obstetric patients admitted to the intensive care unit. *International Journal of Gynecology & Obstetrics*, 132(3), 332–336.

Gupta, B., Guleria, K., Suneja, A., Vaid, N. B., Rajaram, S., & Wadhwa, N. (2016). Adolescent ovarian masses: A retrospective analysis. *Journal of Obstetrics and Gynaecology*, 36(4), 515–517.

Rajaram, S. & Gupta, B. (2015) Management of Vulvar Cancer. *Rev Recent Clin Trials*. 10(4), 282-288.

Rajaram, S., Maheshwari, A., & Srivastava, A. (2015). Staging for vaginal cancer. *Best Practice & Research Clinical Obstetrics & Gynaecology*, 29(6), 822–832.

Sharma, A., Suneja, A., Guleria, K., Motwani, Y., & Singh, N. (2016). Latzko operation for repair of Posthysterectomy Fistula: Reappraisal of an exemplary method. *Journal of Gynecologic Surgery*, 32(4), 211–214.

Rajaram, S., Kava, S., Arora, V., Goel, N., Aggarwal, S., & Mehta, S. (2015). Conventional cytology, visual tests and evaluation of P16 INK4A as a biomarker in cervical intraepithelial neoplasia. *Indian Journal of Cancer*, 52(3), 270-275.

Jain, P., Srivastava, H., Goel, N., Khaliq, F., Dewan, P., Sharma, R., & Bhartiya, V. (2015). Effect of antenatal exercises on pulmonary functions and labour outcome in uncomplicated primigravida women: A randomized controlled study. *International Journal of Reproduction, Contraception, Obstetrics and Gynecology*. doi:10.18203/2320-1770.ijrcog20150732.

Sharma, R., Singh, S., Bhartiya, V., Gupta, J. & Radhakrishnan, G. (2015) Product of Symphysis-Fundal Height and Abdominal Circumference: A Predictor of Estimated fetal Weight at Birth. *International Journal of Scientific Study*. 3(9), 125-127.



Singla, A., Mehta, S., Rajaram, S., & Shree, S. (2015). Materno-Fetal outcomes with viral hepatitis in pregnancy. *The Journal of Obstetrics and Gynecology of India*, 66(3), 166–169.

Guleria, K. (Group Member) Caesarean section surgical techniques and long term outcomes: follow-up of the CORONIS trial. *THE LANCET-D-15-07374R3*.

### **Research Projects**

Dr. Amita Suneja, Dr Kiran Guleria (Co-investigator), “International Observational E-Registry on the use of Dilapans/Dilasoft osmotic dilators for cervical ripening prior to induction of labor”, 2015-16, Medicem International, 2.5 Lakhs.

Dr. Kiran Guleria (Co-investigator), “Gene- Environment interaction and high risk of epithelial ovarian cancer” (collaboration with Dept. of Biochemistry), 2012- 2015, ICMR Grant of 55 lakhs to Dept. of Biochemistry, UCMS.

Dr. Kiran Guleria (Co-investigator), “Causes, risk factors and outcome of maternal morbidity in East Delhi: population and hospital based study” (ICMR project in collaboration with Dept. of Community Medicine), 2012 Dec.- 2015, ICMR Grant of 9 lakhs to Dept. of Community Medicine, UCMS.

Dr. Bindiya Gupta (Co-investigator), “Primary culture of epithelial ovarian cancer as a tool to detect resistance to chemotherapeutic agents: A pilot study”, 2015-2018, DBT Grant to Dept. of Biochemistry, UCMS, 23.5 lakhs.

Dr. A.G.Radhika, “Feasibility of engaging nursing students posted in Labour room to plot ICMR partograph (Prasavgraph) - An ICMR multicentric study”, Aug 2015- Jan 2016.

Dr. A.G.Radhika, “Ferrous Sucrose in Pregnant Anemic Women in India (FeSPA) – An open label randomised controlled trial”, Nov 2015-Nov 2017, funded by WHO-GOI, grant of Rs.16,67,750/-.

### **Conferences Organized**

22<sup>nd</sup> Annual conference NARCHI, Delhi branch at Scope complex Lodhi Road New Delhi, 22<sup>nd</sup> & 23<sup>rd</sup> Aug 2015

FOGSI Oncology & TT Committee & AOGD Oncology Committee CME: Gyn Oncology Update for Practising Gynecologists. 3<sup>rd</sup> January, 2016, Juniper Hall, India Habitat Centre, Delhi

CME on “Thyroid disorders in pregnancy” in March 2016, at UCMS & GTB Hospital.

### **Inter-Institutional Collaborations**

Dr. Kiran Guleria CORONIS Trial; The International CAESER Study-a followup study (2011-2014) 2011-2014 NEU, Oxford, UK Central grant to AIIMS

**Faculty Strength:** Permanent: 16 ; Adhoc: 1

## **OPHTHALMOLOGY (UCMS)**

### **Publications**

Gupta, V. P., Gupta, P., & Gupta, R. (2016). Re. *Ophthalmic Plastic and Reconstructive Surgery*, 32(2), 154.

Sehgal, V., Singh, N., Sharma, S., Rohatgi, J., Oberai, R., & Chatterjee, K. (2015). Tuberos sclerosis complex: Diagnostic role of magnetic resonance imaging. *Indian Journal of Dermatology*, 60(4), 421.

Agarwal, N., Thawani, R., Gupta, S., Sharma, A., & Dhaliwal, U. (2014). Objective, structured Proforma to score the merit of scientific presentations. *Indian Journal of Surgery*, 77(S3), 1001–1004.

Gupta, S., Singh, S., & Dhaliwal, U. (2015). Visible Facebook profiles and e-professionalism in undergraduate medical students in India. *Journal of Educational Evaluation for Health Professions*, 12, 50. doi:10.3352/jeehp.2015.12.50

Dhaliwal, U., Gupta, P., & Singh, T. (2015). Entrustable professional activities: Teaching and assessing clinical competence. *Indian Pediatrics*, 52(7), 591–597.

Dhaliwal, U. (2015) Editorial: Art - the heart of medicine. *RHiME*. ;2:1-2.

Dhaliwal, U. (2015) *Chapter 11.Examination of the eye*. In: Gupta, P., Editor. *Clinical Methods in Pediatrics*. 3rd ed. CBS Publisher: Delhi.

## **ORTHOPAEDICS (MAMC)**

### **Major Activities and Achievements**

The department of Orthopaedics, Maulana Azad Medical College has continued to maintain a high standard of medical education in the field of orthopaedics for both undergraduate and postgraduate students. The department has published numerous articles of a high academic standard and these have been published / accepted in peer review international journals of repute. The faculty members have delivered guest lectures and presented papers in international and national conferences and have been invited as guest faculty and expert in various courses and forums across the country. The department continued to successfully conduct the popular postgraduate instructional course in orthopaedics, which attracted more than 300 postgraduate students across the country.

### **Honours/Distinctions**

The department was awarded the prestigious Fleming's trophy for the year 2015 during convocation day of MAMC. This trophy is awarded to the clinical department having the best research work.

### **Publications**

Gautam, V.K., Verma, S., Batra, S., Bhatnagar, N., & Arora S. (2015). Platelet-rich plasma versus corticosteroid injection for recalcitrant lateral epicondylitis: clinical and ultrasonographic evaluation. *Journal of Orthop Surg*, 23(1), 1-5.

Gautam, V.K., Sharma, A., Verma, S., & Arora, S. (2015). Letter to the Editor: Platelet-rich plasma versus corticosteroid injection for recalcitrant lateral epicondylitis: clinical and ultrasonographic evaluation. *Journal of Orthop Surg*, 23(2), 270-271.

Sabat, D., Jain, A., & Kumar, V. (2016). Displaced posterior cruciate ligament avulsion fractures: a retrospective comparative study between open posterior approach and arthroscopic single tunnel suture fixation. *Arthroscopy. The Journal of Arthroscopic & Related Surgery*. *Arthroscopy*, 32(1), 44-53.

Singh, S., Batra, S., Maini, L., & Gautam, V.K. (2015). Xanthogranulomatous Osteomyelitis of Proximal Femur Masquerading as Benign Bone Tumor. *American Journal of Orthopaedic*, 44(8), E272-274.

Mohindra, M., Gautam, V.K., Maini, L., Kumar, S., & Verma, S. (2015). Subacute posttraumatic ascending myelopathy: A case report and review of literature. *Chin J Traumatol*, 18(1), 48-50.

Gupta, P., Rammohan, R., Maini, L., Gautam, V.K., & Khurana, N. (2015). Osteoid Osteoma of the Metacarpal-A Case Report. *J Hand Microsurg*, 7(1), 187-90.

Sural, S., & Verma, A. (2015). The clinical profile of musculoskeletal injuries in children attending a major hospital in Delhi, India. *J Clin Orthop Trauma*, 6(1), 12-8.

Maini, L., & Sharma, A. (2015). Synovial Chondromatosis of knee. *Indian J Med Res*, 142, 772-773.

Sankaran, A., Thora, A., Arora, S., & Dhal, A. (2015). Single tendon transfer of the flexor carpi ulnaris for high radial nerve injuries. *J Orthop Surg*, 23(3), 345-348.

Sabat, D., & Kumar, V. (2015). Selective anatomic augmentation of symptomatic partial tears of the anterior cruciate ligament. *Indian Journal of Orthopedics*, 49, 129-135.

Goel, A., Sabat, D., & Sambharia, A. (2015). Tuberculosis of wrist joint in an 8- year-old child presenting as hamate osteitis: a rare case report. *Journal of Clinical Orthopedics and Trauma*, 6(4), 293-295.

Nandy, K., Raman, R., Vijay, R.K., & Maini, L. (2015). Non-union coronal fracture femoral condyle, sandwich technique: A case report. *J Clin Orthop Trauma*, 6(1), 46-50.

Singh, A., Cuevas-Covarrubias, S., Pradhan, G., Gautam, V.K., Messina-Baas, O., Gonzalez-Huerta, L.M., Goyal, M., & Kapoor, S. (2015). Novel mutation and white matter involvement in an Indian child with pycnodysostosis. *Indian J Pediatr*, 82(5), 471-473.

### **Research Projects**

Dr. Anil Dhal, "Evaluation of Multimodality imaging in the diagnosis and assessment of post-operative spinal infection".

### **Inter-Institutional Collaboration**

A. Dhal, V.K. Gautam, & S. Sural "Post graduate Diploma course in Geriatric Medicine", IGNOU, India.

**Faculty Strength:** Permanent: 11; Contractual: 2

### **Other Significant Information**

Dr. Sumit Sural was awarded Fellowship by Indo American Spine Alliance for Spine Surgery at the Shriners Hospital for Children, Philadelphia, USA in the month of November-December 2015.

## **OPHTHALMOLOGY (LHMC)**

### **Major Activities and Achievements**

The department has a major role in undergraduate curricula as Ophthalmology is a separate subject of MBBS and the College has over 200 students graduating every year. There are 4 M.S. students every year in the subject. The

out patient facilities in eye at Smt. S.K. Hospital & Kalawati Hospital are available daily to patients. Various specialities of Ophthalmology are offered to patients and to the postgraduate trainees. The department has state of the art facilities in glaucoma, ophthalmoplasty, pediatric ophthalmology & vitreo retina diseases. It also offers round the clock casualty services in eye diseases. Many national & international conferences have been attended by the faculty members & residents and many papers were presented in the year 2015-2016. One poster got the best award in an International conference and one at a national conference 2015-2016. Participated in the Motia Mukti Abhiyan Phase XVI of the Delhi Govt. Initialised the process of participating the Hospital cornea Retrieval programme of the AIIMS by signing a MOU with them .This is the first step in initiating Cornea surgical services in the department.

### **Honours / Distinctions**

Chaudhuri, Z., Nagpal, M., Garg, R., Bhayana, S., Congenital naso-lacrimal duct obstruction and refractive errors in Down's syndrome. E-poster presentation in the session on "Anterior Segment – Lacrimal" at the 74<sup>th</sup> All India Ophthalmological Society Conference at Kolkata, India – Won the Best Physical Poster award in the anterior segment at 74<sup>th</sup> ALOS Conference.

### **Publication**

Chaudhuri, Z., & Demer, J. L. (2015a). Graded vertical rectus tenotomy for small-angle cyclovertical strabismus in sagging eye syndrome. *British Journal of Ophthalmology*, 100(5), 648–651. doi:10.1136/bjophthalmol-2015-306783

Chaudhuri, Z., & Demer, J. L. (2015b). Magnetic resonance imaging of bilateral split lateral rectus transposition to the medial globe. *Graefe's Archive for Clinical and Experimental Ophthalmology*, 253(9), 1587–1590. doi:10.1007/s00417-015-3071-6

Chaudhuri, Z., & Demer, J. L. (2015c). Characteristics and surgical results in patients with age-related divergence insufficiency esotropia. *Journal of American Association for Pediatric Ophthalmology and Strabismus*, 19(1), 98–99. doi:10.1016/j.jaapos.2014.11.004

Chaudhuri, Z., & Demer, J. L. (2015d). Rectus muscle Plication Procedure—Reply. *JAMA Ophthalmology*, 133(2), 227. doi:10.1001/jamaophthalmol.2014.4263

### **Conferences Organized**

Retinopathy of Prematurity (ROP) workshop on 1<sup>st</sup> of December 2015 as part of the Centenary celebration of LHMC.

Madan, S., Jain, R., Chaudhuri, Z. (2015) Ocular manifestations in West Syndrome. E-Poster at the 73<sup>rd</sup> All India Ophthalmological Society Conference (AIOC) at New Delhi from February 5-8.

Prakash, P., Singh, M., Jain, R., Chaudhuri, Z. (2015) Spectrum of ocular defects in global developmental delay. E-Poster at the 73<sup>rd</sup> All India Ophthalmological Society Conference (AIOC) at New Delhi from February 5-8.

Nagpal, M., Jain, R., Chaudhuri, Z. (2015) Ocular Manifestations of Cerebral Palsy (CP). E-Poster at the 73<sup>rd</sup> All India Ophthalmological Society Conference (AIOC) at New Delhi from February 5-8.

**Faculty Strength:** Permanent: 5

## OTORHINOLARYNGOLOGY (UCMS)

### Major Activities and Achievements

The Head of the Department, Professor P. P. Singh was invited as guest faculty to various reputed institutes for live surgical demonstrations of a special minimally invasive technique- Sialendoscopy.

### Publications

Goyal, S., Sharma, S., Kotru, M., & Gupta, N. (2015). Role of FNAC in the diagnosis of intraosseous jaw lesions. *Med Oral Pathol Oral Cir Bucal*, 20(3), 284-291.

Kumar, M., Goyal, A., Gupta, N., & Rautela, R.S. (2015). Subcutaneous emphysema: Unique presentation of a foreign body in the airway. *J Anaesthesiol Clin Pharmacol*, 31, 404-406.

Gupta, N., Singh, P. P., & Bagla, R. K. (2015). Will Septal correction surgery for deviated nasal septum improve the sense of smell? A prospective study. *Surgery Research and Practice*, 2015, 1-5.

Malhotra, A., & Arora, V. (2015). Penetrating knife injury to infratemporal region: case report & review of literature. *International Surgery Journal*, 2(4), 700-702.

Vaid, L., Jain, N., Gogia, V., & Mishra, K. (2015). Sinonasal manifestation of Rosai- Dorfman Syndrome. *Clin Rhinol- an International Journal*, 1, 43-45.

### Presentation in Conference

Gupta N, Sharma A, Singh PP 2015. Excessive Exposure to Loud Recreational Music can be Harmful: How aware are our youngsters. In Conference proceedings- 1st World Congress on Ear and Hearing Care, Delhi, 12-14<sup>th</sup> Feb 2015.

**Faculty Strength:** Permanent: 6

### Other significant information

Dr. Neelima Gupta presented two e-posters in prestigious 16<sup>th</sup> World Congress of Rhinology, held at Sao Paulo, Brazil; from April 30<sup>th</sup> to 2<sup>nd</sup> May 2015.

## PAEDODONTICS AND PREVENTIVE DENTISTRY (UCMS)

### Publications

Khatri, A., Kumar, S., Kalra, N., & Tyagi, R. (2016). Fragment reattachment of a complicated crown-root fracture in primary maxillary central incisor and 1 year follow-up. *SRM Journal of Research in Dental Sciences*, 7 (2), 124-127.

**Faculty Strength:** Permanent: 4

## PATHOLOGY (MAMC)

### Honours/ Distinction

Dr. S. Jain

On the editorial board of 'Journal of Cytology'.

Nodal Officer for "Cancer Detection Program" under Govt. of NCT, Delhi

Co-coordinator for screening of early detection of cancer in women in 'Stree Shakti Abhiyan' under Govt. of NCT, Delhi

### Publications

Sharma, S., Sehgal, V.N., Bhattacharya, S.N., Mahajan, G., & Gupta, R. (2015). Clinicopathologic spectrum of cutaneous tuberculosis: A retrospective analysis of 165 Indians, *Am J Dermatopathol.*,37(6), 444-50.

Sethi, S., Sahoo, B, Garg, N. and Gupta, R. (2015). Borderline Hansen complicated by a metastatic cold abscess, *Lepr Rev*, 86, 395–402.

Garg, N., Singh, D.K., Tomar, R., & Singh, B. (2015). Phenotype Prevalence of Blood Group Systems (ABO, Rh, Kell) in Voluntary, Healthy donors-Experience of a Tertiary Care Hospital in Delhi, North India, *J Blood Disord Transfusion*, 6, 297, doi:10.4172/2155-9864.1000297.

Subbarayan, D. (2015). Histomorphological features of intestinal Atresia and its clinical correlation. *JOURNAL OF CLINICAL AND DIAGNOSTIC RESEARCH*. doi:10.7860/jcdr/2015/13320.6838

Vineet, R., Sumit, S., Garg, K. V. ,& Khurana, N. (2015). Lichen planus pigmentosus in linear and zosteriform pattern along the lines of Blaschko,*Dermatol Online J.*, 21, 10.

Bohara, S., Dey, B., Agarwal, S., Bharti, J. N., Khurana, N., & Sachdeva, P. (2015). Metastatic renal cell carcinoma masquerading as a primary ovarian mass in a post-operative case of meningioma and renal cell carcinoma. *Rare Tumors*, 7(3), . doi:10.4081/rt.2015.5824

Dey, B., Bharti, J.N., Dange, P., Desai, P.A., Khurana, N., & Chander, J. (2015).Paratesticular Spindle Cell Rhabdomyosarcoma, *Rare Tumors*, 7(3), 5823.

Sethi, S., Sarkar, R., Garg, V., & Khurana, N. (2015).Pentazocine-induced ulcers revisited, *Int J Dermatol.*,55(1), 49-51.

Goel, S., Khurana, N., Marwah, A., & Gupta, S. (2015).Expression of cdk4 and p16 in Oral Lichen Planus, *J Oral Maxillofac Res.*, 6 (2), 4.

Gupta, P., Rammohan, R., Maini, L., Gautam, V.K., & Khurana, N. (2015). Osteoid Osteoma of the Metacarpal-A Case Report,*J Hand Microsurg.*,7(1), 187-190.

Bhushan, G., Raina, U. K., Gupta, A., Bhambhwani, V., & Khurana, N. (2015). Ghosh BInverted mucoepidermoid papilloma of conjunctiva in a child,*J AAPOS.*,19(3), 266-267.

Keisham, C., Sarkar, R., Khurana, N., Ghosh, N., Garg, V.K., & Manoj, R.K. (2015). Black dot tinea capitis caused by trichophyton rubrum in an adult female presenting with cicatricial alopecia, *Ind J Dermatol Venereol Leprol.*, 81(2), 224.

Rana, K., Wadhwa, V., Bhargava, E.K., Batra, V., & Mandal, S. (2015). Ewing's Sarcoma Multifocal Metastases to Temporal and Occipital Bone: A Rare Presentation, *J Clin Diagn Res.*, 9(6), 4-5.

Jain, S., Desai, P., Goel, G., Singh, N., & Kaushal, S. (2015). Urinary filariasis masquerading as the bladder tumor: A case report with cyto-histological correlation. *Journal of Cytology*, 32(2), 124-126.

### **Conferences Organized**

Dr. Shyam lata Jain organized as chairperson 'Annual Conference of Delhi Chapter of Indian Academy of Cytologists' in Sept 2015.

Dr. Nita Khurana, Internal Coordinator for the Workshop on "Quality Assurance in Medical Education" As part of National Conference of Health Profession education held under the aegis of Indian Association of Health Professions Education, November, 2015 at MAMC.

### **Conference Presentations**

Dr. Shyam Lata Jain was invited faculty and delivered a lecture on "Cytological Approach to neoplastic hepatic mass Lesions" in 'Inter Command Hospital 'CME-2015' on An Emerging Definition of Pathology', Army Hospital (R&R), New Delhi, 21-22 August 2015.

Dr. Shyam Lata Jain was faculty speaker in pre conference CME on "Cytology of Pulmonary Lesions" in 45<sup>th</sup> Annual Conference of IAC, CYTOCON 2015, 19-22 November 2015, HIMS, Dehradun, Uttarakhand.

Dr. Shyam Lata Jain was invited Faculty speaker in "Clinicopathological Conference on Gastro-hepatology- A Case Base Discussion" delivered Two Case based Studies in 2 sessions, Fortis Escorts Heart Institute, Okhla, New Delhi on 21<sup>st</sup> Feb 2016.

Dr. Shyam Lata Jain was invited faculty speaker in CME on 'Cytology of Hepato- Pancreato Biliary Disorders' and delivered "Slide Seminar on Liver and Gall Bladder Lesions' at Sir Ganga Ram Hospital, 19<sup>th</sup> March 2016.

Dr. Nita Khurana participated as a invited speaker on "Trouble shooting in Immunohistochemistry" in the workshop on Basic Techniques in Immunohistochemistry, MAMC, Organised by Department of Anatomy.

Dr. Nita Khurana participated as resource person in the Revised Basic Workshops on Medical Education Technology organised by Department of Medical Education MAMC.

Dr. Richa Gupta delivered a Lecture on "Peripheral blood Smear Examination" in UG pathology course at Hyderabad 2015.

Dr. S. Jain was invited faculty in 'Clinicopathological Conference on Gastro-hepatology- A Case Base Discussion', delivered Case based Studies in 2 sessions, Fortis Escorts Heart Institute, Okhla, New Delhi, 21<sup>st</sup> Feb 2016.

Dr. Nita Khurana participated as resource person in the Capsule course for senior residents on Medical Education Technology, organised by Department of Medical Education MAMC.

Dr. Nita Khurana participated as resource person in the National Teachers training Programme for medical faculty organised by Department of Medical Education MAMC.

**Faculty Strength:** Permanent -9; Contract-3

## **PATHOLOGY (UCMS)**

### **Honours/ Distinctions**

*Dr. Kiran Mishra received Tandon Award for Best Poster Presentation “Evaluation of collagen birefringence in cervical cancer and adjacent mucosa using Picrosirius red stain and polarized light microscopy”, (DAPCON 2016), 28 Feb, 2016.*

### **Publications**

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### **Conferences Organised**

*Workshop on “Manual Tissue Microarray Construction”, 12<sup>th</sup> March, 2016.*

*Annual Conference of “Pathologists Association Delhi Chapter” (DAPCON 2016), 28<sup>th</sup> Feb, 2016.*

### **Conferences Presentations**

*Sikka, M., Microcytic hypochromic anemias:A systematic approach to diagnosis. In Proceedings of 8th Annual conference of Association of Practising Pathologists.7<sup>th</sup> Feb 2016.*

*Sodhi, R., Sikka, M., Kotru, R. & Singh, H., Markers of fibrinolysis in Indian patients with isolated head trauma. 57<sup>th</sup> Annual Conference ISHBT, Bengaluru, 5-7<sup>th</sup> November, 2015.*

*Sodhi, R., Sikka, M., Kotru, R. & Singh, H., Coagulopathy and thrombocytopenia in Indian patients with isolated head trauma. 57<sup>th</sup> Annual Conference ISHBT , Banglore, 5-7<sup>th</sup> November, 2015.*

Aggarwal, D., Rathore, R., & Tanveer, N. (2015). Chondroid Syringoma over forearm- a rare skin tumor in an unusual location (Abstract), in Proceedings of the at IVth Annual Conference of Delhi Chapter of Indian Academy of Cytologists, Maulana Azad Medical College, Delhi, Page 22, Abstr P33.

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Tanveer, N., Mishra, K., & Singh, U.R. (2015). Warthin Finkeldy cells in a case of Kimura’s disease (Abstract), In Proceedings of 45<sup>th</sup> Annual Conference of Indian Academy of Cytologists, Himalayan Institute of Medical Sciences, Dehradun, PP57.

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Neha, G., Neelam, W., & Preeti D. (2015). Occult Medullary Thyroid Carcinoma presenting as a cervical lymph node metastasis: A rare presentation. Sovenior & Proceedings IVth Annual Conference of Delhi Chapter of Indian Academy of Cytologists, Maulana Azad Medical College, Poster Code: P32.

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Jyotsana, H.G., Neelam, W., & Preeti, D. (2015). Hyphomycetes presenting as a subcutaneous swelling. Sovenior & Proceedings IVth Annual Conference of Delhi Chapter of Indian Academy of Cytologists, Maulana Azad Medical College.

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Taruna, B., Monika, S., Preeti D., Priyanka G., & Vinod, A. (2016). Follicular variant of Acinic Cell Carcinoma with abundant amyloid deposits – an unusual entity. Sovenior Delhi Chapter ANNUAL IAPM - DAPCON 2016, UCMS & GTB Hospital. Poster Code: PA – 29.

Shipa, C., Sandip, B., Priyanka, G., & Preeti, D. (2016). Metachronous and Synchronous Adenocarcinoma of Jejunum, ascending and descending colon – a rare entity. Sovenior Delhi Chapter ANNUAL IAPM - DAPCON 2016, UCMS & GTB Hospital. Poster Code: PA – 30.

Rajat, J., Preeti, D., Neelam, W., Aggarwal, S.K., & Kiran M. (2016). Retroperitoneal Extragonadal yolk sac tumor misdiagnosed as Wilms' tumor on FNAC. Sovenior Delhi Chapter ANNUAL IAPM - DAPCON 2016, UCMS & GTB Hospital. Poster Code: PA – 34.

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*Goyal, N., Agarwal, V., & Mishra, K. (2016). Leiomyosarcoma of breast : A rare occurrence. , 31<sup>st</sup> DAPCON, UCMS.*

*Chandan, K., Satendra, S., Rajnish, A., & Mrinalini, K. (2015). Association of endothelial nitric oxide synthase (eNOS)gene polymorphism in diabetes mellitus (Type 2). 57<sup>th</sup> Annual Conference ISHBT, Bengaluru, 2015.*

*Monika, S., Satendra, S., Rajnish, A., & Neelam, W. (2015). Myeloperoxidase Polymorphism in young patients with coronary artery disease. 57<sup>th</sup> Annual Conference ISHBT, Bengaluru, 5-7<sup>th</sup>November, 2015.*

### **Conference Presentations**

*Meera Sikka delivered talkon Microcytic hypochromic anemia: A systematic approach to diagnosis at 8th annual conference of Association of Practising Pathologists Pt BD Sharma University, Rohtak, 7th Feb 2016.*

*Priyanka Gogaidelivered a talk on “Interesting cases in blood banking based on immunohematology” in Advanced Workshop on Immunohematology (Dry Workshop) in GTB Hospital & UCMS, Delhi, 25 April 2015.*

**Faculty Strength:** Director Professor: 6; Professor: 2; Associate Professor: 3; Assistant Professor: 1

## **PEDIATRICS (MAMC)**

### **Major Activities and Achievements**

The Department of Pediatrics, MAMC under the Headship of Dir. Professor, Dr. S. Yadav is soldering the entire Undergraduate & Postgraduate Pediatric teaching responsibility of this institution. Also it is actively involved in managing the Pediatric admission and outpatient department of Lok Nayak Hospital, a public Health Hospital of

NCT, Delhi affiliated to this college. Involvement in multiple research projects of ICMR, DBT and other agencies has contributed to immense scientific research and many publications in National & International esteemed journals. Many facilities of this department have their own National recognition and International acclaim. This Department is constantly endeavoring to provide Pediatric care of International standards and imparting Pediatrics education par excellence.

Department of Pediatrics offers Under Graduate (UG) and Post Graduate (PG) teaching. All the Faculty Members were actively involved in UG & PG Teaching & published many papers in various National & Inter-National Journals. Besides they have also organized many workshops and Symposia. A proportion of them are involved in PhD programs and a part of advisory group on health programs.

### **Honours/Distinctions**

Dr. S Ramji has received the Delhi State Health Award for Outstanding Contribution to Health, 2015. In addition he also received the Ramachandran Oration, Nutrition Foundation of India, 2015 and Manish Memorial Oration, Pediatric Surgery Deptt, MAMC, 2016.

Dr. Urmila Jhamb has received the appreciation award from Govt of Delhi (secretary health) for exemplary work done during dengue outbreak.

### **Publications**

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Choudhary, S. K., Agarwal, A., Mandal, R. N., & Grover, R. (2016a). Hemophagocytic Lymphohistiocytosis associated with hepatitis A and hepatitis E Co-infection. *The Indian Journal of Pediatrics*, 83(6), 607–608. doi:10.1007/s12098-015-2021-y

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Dubey, A. P. (2016). Measles. In A. Parthasarthy, M. K. C. Nair, P. S. N. Menon, & R. Kundu (Eds.), *IAP textbook of Pediatrics*. (6th Edition. ed.). New Delhi: Jaypee Brothers Medical Publishers (Pvt) Ltd.

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Goyal, M., & Kapoor, S. (2015). Fatty acid oxidation defects. In P. Gupta, P. S. N. Menon, S. Ramji, & R. Lodha (Eds.), *PG Textbook of Pediatrics* (1st Edition ed.) (pp. 86–90). New Delh: Jaypee The Health Sciences Publisher.

Gupta, S., Goyal, M., Verma, D., Sharma, A., Bharadwaj, N., Kabra, M., & Kapoor, S. (2015). Adverse pregnancy outcome in patients with low pregnancy-associated plasma protein-a: The Indian experience. *Journal of Obstetrics and Gynaecology Research*, 41(7), 1003–1008. doi:10.1111/jog.12662

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### Research Projects

Dr. S. Yadav, R&D component with extramural funding, entitled “A sequential phase III, randomized, multicenter single-blind study to evaluate immunogenicity safety, reactogenicity of liquid ROTAVAC 5C formulation of the live attenuated rotavirus vaccine as a 3-dose series when compared with ROTAVAC in infants”

Dr. A P Dubey, Department of Biotechnology, entitled “Home based management of children with severe acute malnutrition”.

Dr. A P Dubey, R & D component with extramural funding, entitled “Safety and immunogenicity of liquid varicela vaccine”.

Dr A P Dubey, R & D component with extramural funding entitled "Safety and immunogenicity of Rotavirus vaccine".

Dr. U. Jhamb, CSIR funding, entitled “Role of Spontaneous breathing trial on duration of mechanical ventilation”.

Dr. S. Kapoor, Govt. of NCT, Delhi funding, entitled “Antenatal screening of women for thalassemia status”.

Dr. S. Kapoor, SERB, Dept of Science & Technology funding, entitled “A novel feasibility study of newbornscreening for treatable disorders and epidemiologic data generation for inborn metabolic errors in Delhi state”

Dr. S. Kapoor, CSIR funding entitled “Study of Chromosomal Instability and mRNA expression of TNF- $\alpha$  in patient with Fanconi Anemia”

Dr. S. Kapoor, ICMR funding entitled “Multicentric Collaborative study of the clinical, biochemical and Molecular Characterization of Lysosomal storage disorders in India-The initiative for research in Lysosomal Storage Disorders” and “Web designing and quality assurance for collaborative study on quality assurance”

Dr. M. Juneja & Dr. D Mishra, ICMR funding, “Comparison of caregiver administered intervention program with weekly versus 6 weekly training sessions for children with autism: A randomized trial”

Dr. S Ramji & Dr. Ashish Jain, Imperial college of Medicine, Centre of Perinatal Neuroscience, Imperial Neonatal Service, Queen and Chelseas Hospital, LONDON funding, entitled “Hypothermia for encephalopathy in low and middle income countries (HELIX) trial”.

Dr. S Ramji & Dr. Ashish Jain, Welcome trust funding. entitled “Evaluating the efficacy and safety of an innovative and affordable goat lung surfactant extract (GLSE) for the treatment of respiratory distress syndrome (RDS) in preterm neonates: a multi-site randomized clinical trial”.

Dr. D Mishra & Dr. S Khalil. Intramural funding, entitled “Implementation of a Mini-Clinical Evaluation Exercise (Mini-CEX) program to assess the Clinical Competencies of Pediatric III year Residents”.

### **Conferences Organized**

Seminar on “Growth and Endocrine Disorders” for PEDICON New Delhi Jan 2015

Seminar on “Adolescent Endocrinology”.

Workshop on “Developmental Pediatrics” by Dr. M. Juneja, held on 7-8th March 201.

Workshop/Seminar on “Continues Positive Pressure (CPAP) for Doctors and Nurses of MP – SNCU” by Dr Ashish at Bhopal, Madhya Pradesh,India, held on 15th and 16th January 2015.

Workshop/Seminar on “Recent Advances in Neonatology” was organized by Dr NB Mathur and Dr Ashish, Department of Neonatology, MAMC at MAMC , New Delhi on 15th Feb 2015.

Workshop/Seminar on “Public awareness program on Asthma”, at Pediatric OPD, Lok Nayak Hospital, New Delhi, held on 9<sup>th</sup> May 2015.

Workshop/Seminar on “Respiratory Chapter (Delhi), monthly clinical meet” by Indian Academy of Pediatrics,

Department of Pediatrics, Maulana Azad Medical College, held on 10<sup>th</sup> October, 2015.

### **Conference Presentations**

Dr. S. Kapoor presented paper on “the Country report” at pre-conference in conjunction with the 9th Asia-Pacific Regional Meeting of the International Society of Neonatal Screening 2015”. She also Presented paper on “National Newborn Screening Programme, Country Reports, Expanded New born Screening Programme-Harmonization issues.” in the conference 9<sup>th</sup> Asia –Pacific Regional Meeting ISNS held at Penang, Malaysia during 7 – 9 December, 2015.

She delivered a talk on “Inborn Metabolic Disease in Asian Prospects” in the conference of Taiwan Human Genetics Society and 4<sup>th</sup> Asian Congress for Inherited Metabolic Disease (ACIMD) 2015 held during 19 to 22 March, 2015.

Presentation with Somesh Kumar on “Inborn errors of metabolism spectrum in symptomatic children of north India: 5-year prospective data from tertiary care centre” in the conference of 11<sup>th</sup> Asia Pacific Conference on Human Genetics (APCHG) held at Hanoi, Vietnam, held during 16 to 19 September, 2015 in Hanoi, Vietnam.

Presentation with Sourabh Bidhan on “Incidence of IEM from perspective of new born screening at a tertiary health care center in India” in the 11<sup>th</sup> Asia Pacific Conference on Human Genetics (APCHG) held during 16 to 19 September, 2015 in Hanoi, Vietnam.

Dr Ashish Jain, Poster presentation on " A Randomised trial of Aggressive Feeding Regimen in infants with Birth Weight < 1250 grams "at the Pediatric Academic Society (PAS) and Asian Society for Pediatric Research (ASPR), held in San Deigo, USA.

Dr. U. Jhamb had a paper presentation on “Role of Steroids in post extubation stridor”. He also presented paper on “Abnormalities of serum calcium, phosphate and vitamin D levels in children admitted to pediatric intensive care unit”, at NCPCC (National conference of pediatric critical care at Jaipur).

Dr. S. Kapoor delivered a talk on “Lysosomal storage disorders – Diagnosis & Management” by Dr. S Kapoor at SKIMS Medical College, Srinagar on 19<sup>th</sup> June, 2015.

Delivered a talk on “Genetics in obstetric practices – what obstretition should know at RR Hospital on a CME” at Opening mind to the cano of fetus’ on 19<sup>th</sup> July, 2015 under SFM & AOGP.

Delivered a talk on ‘Genetic Counselling and testing’ on 9<sup>th</sup> August, 2015 on a CME on Genodematosis, ASRAM Medical College

Delivered a talk on ‘Gene Therapy on 9<sup>th</sup> Aug, 2015 on a CME on Genodenatoas at ASRAM Medical College

Delivered a talk on ‘Metabolic Myopathies’ at ICH Kolkata on 15<sup>th</sup> Aug, 2015.

Delivered a talk in First International Conference on Pediatric Rare Diseases held at B M Birla Science & Technology Centre, Jaipur from 27th to 29th November, 2015

Delivered a talk on “Quality improvement by Data Keeping”.organized by National Neonatology Forum and UNICEF on 22<sup>nd</sup> November, 2015 at, RML Hospital, International Class Auditorium

Delivered a talk on “Dysmorphism: The eye sees only what the mind knows” at the Pediatric Conference North India (PCNI 2015) for the following topic, conference is being organised by IAP West Delhi city branch on 26th-

27th Sep, 2015 at Hotel Piccadily, New Delhi

Delivered a talk on “ Gene Therapy” at 11<sup>th</sup> National Comprehensive Course in Cardiovascular Surgery on 12<sup>th</sup>, 13<sup>th</sup> and 14<sup>th</sup> September, 2015 based on the theme of Future Directions in Cardiovascular surgery.

Delivered a talk on “Genetics in obstetric practice - What obstetricians should know?” at the CME on “Opening Mind to Care of the Fetus” being organized at Army Hospital R&R on 19 July 2015 under aegis of Society of Fetal Medicine and AOGD.

Dr. M. Mantan had a poster presentation on “Adrenocortical suppression in children with nephrotic syndrome on corticosteroids” at 27<sup>th</sup> National conference of Indian Society of Pediatric Nephrology held at Jaipur during 9-11 October 2015.

Poster presentation on “ Profile of boys with posterior urethral valves presenting at a tertiary care center” by Dr. M. Mantan at 27<sup>th</sup> National conference of Indian Society of Pediatric Nephrology held at Jaipur, India, during 9-11<sup>th</sup> October 2015.

Delivered a talk on “Steroid sensitive nephrotic syndrome” by Dr. M. Mantan at the Pediatric Nephrology update, Ganga Ram Hospital held on 24 May 2015 at Ganga Ram hospital, Delhi.

Delivered talk on “Neonatal AKI” by Dr. M. Mantan at 27<sup>th</sup> National conference of Indian Society of Pediatric Nephrology held at Jaipur, during 9-11<sup>th</sup> October 2015.

Delivered a talk on “Medical management of Recurrent UTI:Chemoprophylaxis” by Dr. M. Mantan at the PGIMER, RML Hospital, Delhi conference of IAP Delhi held on 19<sup>th</sup> December.

Delivered talk on “Diabetes Insipidus: Evaluation and management” by Dr. M. Mantan at IPNA AsPNA Junior Master class held at AIIMS, Delhi held during 1 to 3 April 2016.

Dr. Sumaira Khalil presented a poster on “Implementation of a Mini-clinical Evaluation Exercise (mini-CEX) Program to Assess Clinical Competencies of Pediatric Residents” at VII National Conference on Health Professions Education, held at Maulana Azad Medical College, New Delhi from 19-21 November 2015

### **Inter-Institutional Collaboration**

Multicentric Study- ICMR LSD project Involving 7 centers with all diseases distributed center wise so as to distribute the entire spectrum of lysosomal storage disorders in terms of biochemical and molecular spectrum

Large multicenter project in newborn screening involving 20 hospitals of Delhi for screening of 5 treatable disorders and epidemiologic data generation for disorders detectable by tandem Mass Spectrometry in collaboration with Prof Thelma, Delhi University. The genetic lab serves as a center for prenatal diagnosis from various Delhi Government Hospitals. Helix trial is being conducted at various institutions.

**Faculty Strength:** Permanent: 11; Ad hoc: 1

### **Other Significant Information**

Members of various expert bodies:

Dr. S. Ramji

- Member, National Advisory group on Neonatal Health, Ministry of Health, Government of India
- Member, Scientific advisory group, Department of Biotechnology, Government of India
- Member, National Task Force on Anemia in children, Ministry of Health, Government of India

Dr. M. Juneja:

- Dr.\_M.Juneja\_ was nominated by the CDG-IAP expert/advisor for National Consultative Meeting for Preparing Guidelines for Neuro-Developmental Disorders in Children, held at Mumbai on 17th and 18th November 2015.

Dr. S. Kapoor:

- Reviewer for Indian Pediatrics, Indian Journal of Pediatrics, Journal of Pediatric Genetics & Metabolism, World Journal Of pediatrics
- Member of the working group on Consolidating Newborn Screening Efforts in the Asia-Pacific Region Newborn Screening Working Group of the Asia Pacific Society of Human Genetics
- Editor of a section- images in clinical practice in MAMC Journal of Medical Sciences member of RBSK group on Down Syndrome

Dr. D. Mishra was nominated by ICMR to the Project Review Committees on ‘Childhood Injuries,’ and on ‘Children in Difficult Circumstances.’

Dr. Ashish

- Dr. Ashish was nominated by the National Neonatology Forum of India and National Health Mission as expert member; for the Consultation Meeting in collaboration with National Neonatology Forum (NNF) for sharing and review of training material under ‘Save the Children ‘Saving Newborn lives in Uttar Pradesh through improved management of Birth Asphyxia’ (CS-28) project. Held at New Delhi on 31st Jan 2015
- Dr. Ashish was nominated as member by Indian Academy of Pediatrics : Neonatology Chapter as member; Publication committee and writing group for 2013-2016
- Dr. Ashish was certified by Division of Neonatology, Department of Pediatrics, AIIMS New Delhi and the WHO SEARO as a trainer of Online neonatal training and orientation programme in India, an Online training of doctors and Nurses, 2015
- Dr. Ashish was nominated by the IAP Neonatology Chapter, for facilitation the inspection for the approval of the Neonatology Fellowship program in the Hospitals applying for the same.
- Member Editorial Board; Journal of Neonatology, a publication by National Neonatology Forum, India. 2013-2014.
- Reviewer for the Indian Journal of Pediatrics
- Reviewer for Indian Pediatrics

## PHARMACOLOGY (MAMC)

### Major Activities and Achievements

The Department of Pharmacology aims to provide a holistic, education experience for MBBS, BDS and postgraduate students in Pharmacology towards which the teaching learning activities are being continuously monitored and improved upon. New learning activities were introduced in both the MBBS and MD programme of

the Department. To promote rational use of medicines in Delhi Government health facilities, the Department conducted a workshop on “Improving availability and rational use of medicines” for doctors working in health facilities under Government of NCT of Delhi. The Department is a recognised Adverse Drug Reaction monitoring center for the National Pharmacovigilance Programme of Government of India. To that end to increase awareness about pharmacovigilance among doctors, nurses and pharmacists two workshops were organized by the Department. Guest lectures by senior scientists were organized.

### **Honors/ Distinctions**

Dr. Vandana Roy has been selected in the Foundation for Advancement in Medical education and Research (FAIMER) Fellowship programme 2016, for training in medical education.

Dr. Bhupinder Singh has been nominated as CPCSEA Nominee by Animal Welfare Division, Ministry of Environment, Forests & Climatic Change.

### **Research Projects**

Dr. HV Bimba, Supervisor- Dr. Vandana Roy, Co-Supervisor- Dr. Shalini Chawla, Dr. M.K. Daga, Dr. Sushanto Neogi, Research project entitled “Utilization and costs of antimicrobials used in medicine and surgery departments of a tertiary care teaching hospital”.

Dr. Himanshu Tayal, Supervisor- Dr. Vandana Roy, Co Supervisor- Dr. AP Dubey, Dr. Shalini Chawla, Research project entitled “Availability, use and costs of Pediatric dosage formulations in India: A Case Study”.

Dr Shankar Kumar, Supervisor- Dr. Shalini Chawla, Co-Supervisor- Dr. Vandana Roy, Dr. R.C. Jiloha Research project entitled “Antipsychotic drug prescribing, adverse drug reaction monitoring, cost of treatment, and quality of life assessment of outpatients at a tertiary care hospital in Delhi”.

Dr. Sahil Kumar, Supervisor-Dr. Uma Tekur, Co-Supervisor Dr. Devender Kumar, Dr. Bhupinder Singh, Research project entitled “Mefenamic acid and Diclofenac in the treatment of menorrhagia and dysmenorrhoea in dysfunctional uterine bleeding-a randomized comparative study”.

Dr. Siddhartha Dutta, Supervisor-Dr. Shalini Chawla, Co-Supervisor-Dr Vandana Roy, Dr. Poonam Loomba, Dr. Siddharth Srivastava, Research project entitled “Effect of trimethoprim- sulfamethoxazole/norfloxacin on faecal microbiota, resistance pattern, efficacy and tolerability in patients receiving prophylaxis for spontaneous bacterial peritonitis”.

### **Publications**

Arya A, Roy V, Lomash A, Kapoor S, Khanna A, Rangari G. (2015) Rifampicin pharmacokinetics in children under the revised National Tuberculosis Control Program, India (2009), *International Journal of Tuberculosis and Lung Diseases*, 19(4): 440-445.

Chavan S, Roy.V. (2015), Designer drugs- A Review. *World Journal of Pharmacy and Pharmaceutical Sciences*; 4(8):297-336.

Dahiya A, Kalra BS, Saini A, Tekur U. (2016) Prescription pattern in patients with rheumatoid arthritis in a teaching tertiary care hospital. *MAMC J Med Sci.*;2: 33-7.

Gupta K, Juneja S, Bajwa GS, Kaushal S. (2015) Role of Cytochrome Modulators in Altering the Occurrence of Cataract in Rats, *Journal of Clinical and Diagnostic Research*;9(7): FF05-FF07.

Hasan MN, Khan RA, Nasiruddin M and Khan AA. (2015), Amelioration of Non-steroidal Anti inflammatory Drug Induced Gastropathy by Nigella sativa Oil- An Experimental Study. *European Journal of Medicinal Plants* 2015; 10(2): 1-8.

Juneja S, Gupta K, Singla M, Singh G, Kaushal S. (2015) Stroke outcome after domiciliary use of opioids in the peri-stroke period. *Journal of Neurosciences in Rural Practice.*;6(4):558-62.

Kanish R, Gupta K, Juneja S, Singh BH, Kaushal S. (2015), Prescribing pattern and pharmacoconomics of antibiotic use in the department of pediatrics of a tertiary care medical college hospital in northern India. *Annals of Tropical Medicine and Public Health*; 8(4):101-04.

Rana P. Roy V. (2015) Generic Medicines: Issues and relevance for global health, *Fundamental & Clinical Pharmacology*, 29(6):529-42.

Rangari G, Roy V, Sethi GS, Mishra TK, Kumar A. (2015), Isoniazid pharmacokinetics under the Revised National Tuberculosis Control Program of India. *Indian Journal of Tuberculosis*; 62:80-85.

Roy V, Gupta M, Ghosh R. (2015), Perception, attitude and usage of complementary and alternative medicine among doctors and patients in a tertiary care hospital in India. *Indian Journal of Pharmacology*, 2015;47(2): 137-142.

### **Conferences Organized**

Dr. Vandana Roy: Organized a Workshop on “Improving Availability and Rational Use of Medicines in Public Health” for doctors working in Delhi Government health Facilities, at Maulana Azad Medical Colleges & Associated Hospitals, March 30<sup>th</sup>-31<sup>st</sup>, 2016.

Dr Shalini Chawla Organized a Workshop on “Pharmacovigilance” for health care providers working in Maulana Azad Medical College & Associated Hospitals, February 18<sup>th</sup>, 2016.

Dr. Vandana Roy: Organized a Workshop on Pharmacovigilance for Patient safety, for Nurses and Pharmacists working in Maulana Azad Medical College & Associated Hospitals, November 26<sup>th</sup>, 2015

### **Conference Presentations**

Dr. Vandana Roy participated and Presented a paper “Impact of Pharmacology teaching learning on students knowledge and skills in rational pharmacotherapeutics” in VII National Conference on Health Professions Education. (Under the Aegis of Indian Association of Health Professions Education) Maulana Azad Medical College, New Delhi. November 19<sup>th</sup>- 21<sup>st</sup>, 2015.

Dr. Vandana Tayal Participated and presented a paper “Serratioppepetididase preparations in the Indian market: assessment of rationality and cost.” in 7<sup>th</sup> National Conference of Indian Society of Rational Pharmacotherapeutics. PGIMER, Chandigarh. Dec. 5<sup>th</sup>-6<sup>th</sup>, 2015.

### **No. of M.Phils/ Ph.D. Degrees Awarded**

Awarded MD in Pharmacology- 3

**Faculty Strength:** Permanent: 5; On contract: 1

### **Other Significant Information**

The Department organized guest lectures as part of its Guest Lecture series.

- Professor Ranjit Roy Chaudhury Memorial lecture. Dr. Kathleen Holloway, Regional Adviser, Essential medicines and devices, World Health Organization, South East Region, delivered a talk on "Promoting rational use of antibiotics to contain Antimicrobial resistance in South East Asia, March 30<sup>th</sup>, 2016.
- Dr. Ravi Ghooi, Consultant clinical research, delivered a talk on "Ethics beyond Guidelines". On February 12<sup>th</sup>, 2016.
- Dr. Tapas Chakma, Senior Scientist, D.G. I.C.M.R, Regional Medical research Centre for Tribals, Jabalpur, Ministry of Health, Government of India, visited the Department and delivered a lecture on "Role of Nutrition in Fluorosis Mitigation", on 20<sup>th</sup> August 2015.

Dr Shilpa Daniel: Received the 1st prize in Oral presentation in the Clinical Pharmacology session (U.K. Seth) in International conference on "Cutting edge pharmacology: Contemporary issues and future challenges"; 48th Annual conference of Indian Pharmacological Society held at Saurashtra University, Rajkot, Gujarat from 18th-20th Dec, 2015.

## **PHARMACOLOGY (LHMC)**

### **Major Activities and Achievements**

In the period from 1<sup>st</sup> April 2015 to 31<sup>st</sup> March 2016, the department has contributed significantly for progress of the discipline. Dr. H. S. Rehan has been awarded Commonwealth Fellowship 2015-16 tenable at School of Pharmacy, Medicine and Health at Durham University, UK. The postgraduate students of the department have won three best paper awards in national and international conferences. A total of four research papers have been published in peer reviewed PUBMED indexed national and international journals. Dr. H.S Rehan, Professor and Head of the department, served as member of subject expert committee of CDSCO in various disciplines, dissection monitoring committee of UGC. Dr. Lalit Kumar Gupta, Professor of the department, served as an expert in National Anti-doping agency. The department in collaboration with IPC Ghaziabad is participating in the Pharmacovigilance Programme of India and is regarded among the top five national centres in terms of adverse drug reaction monitoring.

### **Honours/ Distinctions**

Ex-Pharm Prize (1<sup>st</sup> Prize Oral Paper) for study entitled 'Comparison of Morisky 8 Item Medication Adherence Scale with Pill Count Method to Assess Compliance to Statins & their Correlation with Biomarkers of Dyslipidemia' at 4<sup>th</sup> International & 7<sup>th</sup> National Annual Conference of ISRPT at PGIMER, Chandigarh, 2015, Presented by: Dr. Abhinav Grover, final year MD (Pharmacology) postgraduate trainee.

Best Paper award for the paper entitled "Consider Improvement in Compliance Instead of Switching Over to Higher Intensity statins to Optimize their Benefits" during the 2<sup>nd</sup> International Summit on New Horizons in Dyslipidaemia (Aug 2015), Presented by Dr. Abhinav Grover, final year MD (Pharmacology) postgraduate trainee.

Third oral prize for the paper entitled "Statins & their Role in Peripheral Neuropathy" during the 2<sup>nd</sup> International Summit on New Horizons in Dyslipidaemia (Aug 2015), Presented by Dr. Neha Gurha, second year MD (Pharmacology) postgraduate trainee.



## Publications

Bhargava, S., Prakash, A., Rehan, H. S., & Gupta, L. K. (2015). Effect of systemic corticosteroids on serum apoptotic markers and quality of life in patients with asthma. *Allergy and Asthma Proceedings*, 36(4), 275–282.

Kamble, M., Gupta, R., Rehan, H. S., & Gupta, L. K. (2016). Neurobehavioral effects of liraglutide and sitagliptin in experimental models. *European Journal of Pharmacology*, 774, 64–70.

Tanwar, K., & Mathur, S. (2015). To study the pattern, efficacy and tolerability of analgesic self medication among undergraduate medical students: A questionnaire based survey. *International Journal of Basic and Clinical Pharmacology*.doi:10.18203/2319-2003.ijbcp20150012

Banerjee, I., Rehan, H., & Suranagi, U. (2015). Are we moving towards a new definition of essential medicines? *Journal of Pharmacology and Pharmacotherapeutics*, 6(4), 234 235.

## Research Projects

Dr. Anubhuti Gupta, “Evaluation Of Response To Inhaled Corticosteroid Therapy On Serum CD28 Levels In Adult Bronchial Asthma Patients”, Guide and Co-guides: Dr. Lalit Kumar Gupta, Dr. H.S. Rehan, Dr. Anupam Prakash.

Dr. Neha Gurha, “Study Of The Effect Of Statin Therapy On The Serum Co-enzyme Q10 Levels In Patients Taking Statins”, Guide and Co-guides: Dr. H.S .Rehan, Dr. Lalit, Dr. Madhur Yadav.

Dr. Amritha. R, “To Evaluate The Effect Of Tonabersat In Experimental Models Of Acute Persistent And Neuropathic Pain”, Guide and Co-guides: Dr. Lalit Kumar Gupta, Dr. Harmeet Singh Rehan.

“Ongoing audit of prescriptions in both IPD/OPD of Lady Hardinge Medical College with appropriate interventional strategies”.

“Patient safety interventions through Pharmacovigilance programme of India”.

## Inter-Institutional Collaboration

- The department participates in the Pharmacovigilance Programme of India in collaboration with Indian Pharmacopeia Commission, Government of India.
- Dr. H.S. Rehan and Dr. Lalit Kumar Gupta serve as member of subject expert committee of CDSCO in various disciplines.
- Dr. H.S. Rehan serves as an expert of Dissection monitoring committee of UGC.
- Dr. Lalit Kumar Gupta serves as an expert in National Anti-doping agency.

## No. of Ph.D./M.Phil/ MD Degrees Awarded

MD (Pharmacology) : 3

**Faculty Strength:** Permanent: Professor -2; Assistant Professor-5; Temporary: Assistant Professor: 2

## Other Significant Information

The department in collaboration with IPC Ghaziabad is participating in the Pharmacovigilance Programme of India and is among the top five national centres in terms of adverse drug reaction monitoring.

## PHYSIOLOGY (UCMS)

### Honours/ Distinction

Dr. Shankar, Nilima, Joint Secretary (North Zone) of Association of Physiologists of India in 2015.

Dr. Satendra Singh

Elected as executive member of Delhi Medical Council for period 2015-2020.

Appointed Member of Institutional Committee for Stem Cell Research, Institute of Nuclear Medicine and Allied Sciences (INMAS), Defence Research & Development Organization (DRDO), Delhi for 2015-2017.

Elected member from UCMS & GTB Hospital for the member post of Delhi Medical Council for 2015-2020.

Member, Editorial board of Hektoen International in 2016.

Dr. Vaney, Neelam, Member of Amarjyoti IRB for 2014-2019.

### Publications

Khattar, D. (2016). Delayed auditory conduction in diabetes: Is metformin-induced vitamin B12 deficiency responsible? *Functional Neurology*. doi:10.11138/fneur/2016.31.2.095

Khattar, D., Khaliq, F., Vaney, N., & Madhu, S. (2016). Is metformin-induced vitamin B12 deficiency responsible for cognitive decline in type 2 diabetes? *Indian Journal of Psychological Medicine*, 38(4), 285-290.

Dhaliwal, U., Singh, S., & Singh, N. (2015) Promoting competence in undergraduate medical students through the humanities: The ABCDE paradigm. *RHIME*, 2, 28 – 36.

Gupta, S., Singh, S., & Dhaliwal, U. (2015). Visible Facebook profiles and e-professionalism in undergraduate medical students in India. *Journal of Educational Evaluation for Health Professions*, 12, 50.

Manish, G., Pratibha, G., & Tandon, O. (2015). Brainstem auditory evoked potentials in traffic policemen occupationally exposed to vehicular emission. *International Journal of Clinical and Experimental Physiology*, 2(1), 40-45.

Mohan, M. (2016). Does chronic exposure to mobile phones affect cognition? *Functional Neurology*. doi:10.11138/fneur/2016.31.1.047

Mohan, D. M., Singh, D. S., Khattar, D. D., & Shankar, D. N. (2015). Effect of yoga on Anthropometric, biochemical and cognitive parameters in patients with type 2 diabetes Mellitus. *International Journal of Medicine and Pharmacy*, 3(2), . doi:10.15640/ijmp.v3n2a6

Jain, P., Srivastava, H., Goel, N., Khaliq, F., Dewan, P., Sharma, R., & Bhartiya, V. (2015). Effect of antenatal exercises on pulmonary functions and labour outcome in uncomplicated primigravida women: A randomized controlled study. *International Journal of Reproduction, Contraception, Obstetrics and Gynecology*. doi:10.18203/2320-1770.ijrcog20150732

Khaliq, F., Anjana, Y., & Vaney, N. (2015). Event-related potentials study in children with borderline intellectual functioning. *Indian Journal of Psychological Medicine*, 37(1), 53-57.

Yadav, A., Singh, S., Singh, K. P. & Pai, P. (2015), Effect of an integrated approach of yogic lifestyle intervention on quality of life in coronary artery disease patients, *International Journal of Therapeutic Applications*, 30, 7-13.

Shankar, N. & Kaushik, R. (2016) *Physiology of Contraception*. In: Contraception. New Delhi: Jaypee Publishers.

Mohan, M., Khaliq, F., Vaney, N. & Panwar, A. (2015) *Health Impacts of Mobile Phone*. LAP LAMBERT Academic Publishers.

Singh, S. & Gupta, P. (2016) *Persons with disabilities* (Chapter 13). In: Gupta, P. & Khan, A. M. (Eds.), Textbook of Community Medicine. New Delhi: CBS publishers; 545-74.

Singh, S. (2016) *Perseverance Pays: From impairment to disability* (Chapter 15). In: Lori Czop Assaf & Santoshi Haldar (Eds.) Springer publication.

Vaney, N. (2016) *Electrodiagnosis*. In: Jain, A. K. (Ed.), Turek's Orthopedics. 7<sup>th</sup> Edition. Wolters Kluwer.

### **Conference Presentations**

Dr. Shankar, Nilima, Chairperson & Invited speaker at 2<sup>nd</sup> National Conference of Association of Physiologists of India at SRMS Institute of Medical Sciences, Bareilly during 26<sup>th</sup> -29<sup>th</sup> October 2015.

Dr. Satendra Singh was an Invited speaker at 2<sup>nd</sup> National Conference of Association of Physiologists of India at SRMS Institute of Medical Sciences, Bareilly on 29<sup>th</sup> October 2015. Conducted a session on 'Teaching Humanities' at basic course in medical & health professions education at AIIMS, New Delhi on 31<sup>st</sup> March 2016.

He conducted 'Reviving Humanities in Medical Education' workshop at Bharti Vidyapeet University Medical College, Pune during 9<sup>th</sup>-10<sup>th</sup> March 2016.

Invited talk at 2nd National Conference of Family Medicine & Primary Care at New Delhi on 22<sup>nd</sup> November 2015.

He was invited for a talk on "MCI's ATCOM module: Are we ready for the change?" at ASSOPICON 2015 at SRMSIMS, Bareilly on 29<sup>th</sup> October 2015.

Conducted workshop on Medical Humanities at Jorhat Medical College, Assam during 10<sup>th</sup> -12<sup>th</sup> September 2015.

He was an Invited faculty to conduct session on 'Medical Humanities' for two day orientation program of launch of MCI's Attitude and Communication (ATCOM) Module at MCI during 12<sup>th</sup> -13<sup>th</sup> June and 26<sup>th</sup>-27<sup>th</sup> June 2015.

He organised 'Compassionate Care Workshop' at UCMS Delhi with Dr Carlos Moreno-Leguizamon from University of Greenwich as lead faculty on 12<sup>th</sup> May 2015.

F. Khaliq gave a guest lecture on Myocardial functions and autonomic control in diabetic cardiomyopathy. 61<sup>st</sup> annual conference of Association of Physiologists and Pharmacologists of India at AIIMS Jodhpur from 25<sup>th</sup> Nov to 28<sup>th</sup> Nov 2015.

He also gave a guest lecture on “Role of medicinal plant *Terminalia arjuna* in cardiovascular stress. Symposium on “Lifestyle intervention in stress related disorders” at Lady Hardinge Medical College & Associated Hospitals, New Delhi on 20<sup>th</sup> Feb 2016.

N. Shankar organized a Symposium on ‘Innovations & Advances in Physiology Teaching & Medical Education’ at the 2<sup>nd</sup> National Conference of Association of Physiologists of India at SRMS Institute of Medical Sciences, Bareilly on 29th Oct 2015

S. Singh, MCI's ATCOM module: Are we ready for the change? Symposium on ‘Innovations & Advances in Physiology Teaching & Medical Education’ at the 2<sup>nd</sup> National Conference of Association of Physiologists of India at SRMS Institute of Medical Sciences, Bareilly on 29th Oct 2015.

## PHYSIOLOGY (MAMC)

### Publications

Venkatesan, R., Dinesh, T., Bedi, M., Varshney, V.P., Mohan, J. & Venkiduswamy, S. (2015), Comparative study of lipid profile between episodic migraineurs and healthy volunteers. *International Journal of Medical Science and Public Health*.4(3), 327-330.

Gautam, M., Chandra, S., Saran, R.K., Jain, S. & Krishana, B. (2015), Beneficial Effects of Erythropoietin on Striatal Dopaminergic Neurons in 6-OHDA treated aged rat model of Parkinson’s disease. *International Journal of Basic and Applied Physiology*, 4(1), 174-182.

### Research Projects

Dr. A. K. Jain, Research project entitled “A study of heart rate variability in post-viral thyroiditis patients”.

Dr. Dinesh Kumar, Dr. J. M. Kaul, Dr. Damor Robinson, Research project entitled “Evaluation of effects of environmental pollutants in the pathogenesis of various cardiorespiratory diseases in traffic police personnels”.

Dr. VP Varshney, Dr Mona Bedi, Research project entitled “Gender differences in ANS in children”.

Dr. VP Varshney, Dr Mona Bedi, Research project entitled “Physiology of handwriting and its application in the identification process”.

Dr. VP Varshney, Dr Mona Bedi, Research project entitled “Role of Acupuncture in treating patients of low backache”.

Dr. VP Varshney, Dr Mona Bedi, Research project entitled “A study of ANS and lipid profile in first degree relatives of Type 2 Diabetes Mellitus”.

### Inter-Institutional Collaboration

Dr. A K Jain delivered following guest lectures at

- REGINITE-2015 at Rajahmundry (AP)
- Symposium on ‘Lifestyle intervention in stress related disorder’ at LHMC, N.D.

**Faculty Strength:** Permanent: 10

**PSYCHIATRY**  
**(G.B. PANT INSTITUTE OF POST GRADUATE MEDICAL EDUCATION**  
**AND RESEARCH)**

**Major Activities and Achievements**

The department of Psychiatry at Maulana Azad Medical College & GIPMER continues to run its prestigious MD (Psychiatry) program. Two MD (Psychiatry) students were admitted to the department this year. The department also runs its teaching program for MBBS and BSc Nursing students. The department also undertakes research in form of MD thesis as well as other projects. Faculty members from the department speak as well as take up advisory roles at various forums in psychiatry and mental health.

**Publications**

Kumar, K., Gupta, M. & Rastogi, R. (2015) Effectiveness of psychoeducational interventions in improving outcome of unipolar depression: Results from a randomized clinical trial. *East Asian Archives of Psychiatry*, 25(1), 29-34.

Jhanjee, A. (2015), Psychiatric morbidity in patients with chikungunya fever, *Journal of Clinical and Diagnostic Research*, 9(10), vc01-vc03.

**Research Projects**

Following research projects were carried out in the department:

“A study on mental health literacy and stigma with regards to depression in high school students”

“A comparative study of assessment of caregiver burden, stress and satisfaction of OCD and Bipolar Affective disorders”.

**Faculty Strength:** Permanent : 4 ; Temporary : 1

**PULMONARY MEDICINE (VPCI)**

**Major Activities and Achievements**

- The occurrence of bronchial anthracofibrosis in respiratory symptomatics with history of exposure to biomass fuel smoke
- Clinico-radiological and functional assessment of respiratory symptomatics with either exposure to biomass fuel smoke or tobacco smoking
- Occurrence and impact of bronchiectasis in patients with COPD
- Serum vitamin D levels in patients with allergic rhinitis, chronic rhinosinusitis and nasal polyposis and its association with quality of life
- Occurrence of bronchiectasis in patients with COPD: smokers versus never smokers and the association of upper airway symptoms with quality of life in these patients
- Prediction equations for spirometry for children from North India
- Factors determining outcomes in acute exacerbations of chronic obstructive pulmonary disease
- Impact of Indian equations on spirometry interpretation

- Prediction equations for diffusing capacity (transfer factor) of lung for North Indians
- Indoor air pollution and asthma in children at Delhi, India.
- Inflammatory response to subcutaneous allergen-specific immunotherapy in patients with bronchial asthma and allergic rhinitis
- Atmospheric pollen count in North Delhi region.
- A Comparative Study of Skin Prick Test versus Serum-Specific IgE Measurement in Indian Patients with Bronchial Asthma and Allergic Rhinitis
- Hypersensitivity to Pigeon Allergens in Asthma.
- Correlation of Exhaled Nitric Oxide and Atopic Status in Non- Obese and Obese Bronchial Asthma Patients.
- To measure the effect of environmental tobacco smoke exposure on the respiratory health of children in rural area of Delhi-NCR
- Association of Socioeconomic Status and Indoor Air Pollution Level on Respiratory Health of Children in Rural Area of Delhi-NCR
- Relationship Between Pollens Numbers and Hospital Visits of Patients in North Delhi Region
- Lifestyle factors and asthma in India - a case-control study.
- A prospective study to assess the role of N-acetylcysteine and comparison with pulmonary rehabilitation on quality of life in patients on chronic obstructive pulmonary disease.
- An association of depression in asthma and role of pulmonary rehabilitation vs. antidepressants in patients with moderate and severe asthma.
- Cross sectional study to characterize the asthma-copd overlap syndrome among patients with asthma and chronic obstructive pulmonary disease.
- A cross sectional study to evaluate the association of iron deficiency with disease severity and quality of life in patients with chronic obstructive pulmonary disease.

### **Research Projects**

Following research projects were carried out in the Department:

“Genetic Association study of Polymorphisms related to Chronic Obstructive Pulmonary Disease and its measures in north Indian population: COPD Genetics Consortium”

“Comparison of Pulmonary Function Test; Skin Testing to Common Aero-Allergen and Food”

“Allergen: An Inflammatory marker in Obese and Non Obese Bronchial Asthma Patients”

“Indoor Air Pollution and Asthma Exacerbation in Children: A Population Based Study”

### **Publications**

Agarwal, K., Gaur, S. N., & Chowdhary, A. (2015). The role of fungal sensitisation in clinical presentation in patients with chronic obstructive pulmonary disease. *Mycoses*, 58(9), 531–535.

Chhabra, S. K., Gupta, M., Ramaswamy, S., Dash, D. J., Bansal, V., & Deepak, K. K. (2014). Cardiac sympathetic dominance and systemic inflammation in COPD. *COPD: Journal of Chronic Obstructive Pulmonary Disease*, 12(5), 552–559.

- Garg, T., Gera, K., & Shah, A. (2015). Middle lobe syndrome: An extraordinary presentation of endobronchial tuberculosis. *Pneumonologia i Alergologia Polska*, 83(5), 387–391.
- Gera, K., Roshan, R., Varma-Basil, M., & Shah, A. (2015). Chronic pneumonia due to *Klebsiella oxytoca* mimicking pulmonary tuberculosis. *Pneumonologia i Alergologia Polska*, 83(5), 383–386.
- Grover, C., Goel, N., Armour, C., Van Asperen, P., Gaur, S., Moles, R., & Saini, B. (2016). Medication education program for Indian children with asthma: A feasibility stud. *Nigerian Journal of Clinical Practice*, 19(1), 76-84.
- Goel, C., Gaur, S. N., Bhati, G., & Arora, N. (2015). DC type 2 polarization depends on both the allergic status of the individual and protease activity of per a 10. *Immunobiology*, 220(10), 1113–1121.
- Goel, C., Kalra, N., Dwarakanath, B. S., Gaur, S. N., & Arora, N. (2015). Per a 10 protease activity modulates CD40 expression on dendritic cell surface by nuclear factor-kappaB pathway. *Clinical & Experimental Immunology*, 180(2), 341–351.
- Gupta, P., Dash, D., Mittal, R., & Chhabra, S. K. (2015). Sequential occurrence of combined pulmonary fibrosis and emphysema syndrome in a non-smoker female patient. *The Clinical Respiratory Journal*. doi:10.1111/crj.12339.
- Imran, M., Kotwani, A., & Chhabra, S. (2015). Combinations of long acting  $\beta$  2 agonists to tiotropium: A randomized, double-blind, placebo-controlled, active-drug controlled, parallel design academic clinical trial in moderate COPD male patients. *Archives of Pharmacy Practice*, 6(2), 19-23.
- Imran, M., Chhabra, S., & Kotwani, A. (2015). An acute therapeutic evaluation of Three Regimens of Tiotropium and Formoterol in COPD patients: A Randomized, double-blind, placebo-controlled clinical study. *British Journal of Medicine and Medical Research*, 6(11), 1069–1077.
- Kumar, R., & Singh, M. (2015). Bird fancier’s lung: Clinical-radiological presentation in 15 cases. *Pneumonologia i Alergologia Polska*, 83(1), 39–44.
- Kumar, R., Poongadan, M. N. & Singh, M. (2015). Allergic Bronchopulmonary Aspergillosis presenting as lobar or total lung collapse. *Pneumonologia i Alergologia Polska*, 83, 144–150
- Kumar, R., Nagar, J. K., Goel, N., Kumar, P., Kushwah, A. S., & Gaur, S. N. (2015). Indoor air pollution and asthma in children at Delhi, India. *Pneumonologia i Alergologia Polska*, 83(4), 275–282.
- Kunal, S., Pilaniya, V., & Shah, A. (2016). Bronchial anthracofibrosis with interstitial lung disease: An association yet to be highlighted. *BMJ Case Reports*. doi:10.1136/bcr-2015-213940.
- Kunal, S., Pilaniya, V., & Shah, A. (2016). Middle lobe syndrome: A singularly rare presentation of complicated pulmonary hydatid disease. *BMJ Case Reports*. doi:10.1136/bcr-2016-214670.
- Kunal, S., Pilaniya, V., Jain, S., & Shah, A. (2016). “Crazy-paving” pattern: An exceptional presentation of cryptogenic organising pneumonia associated with chronic obstructive pulmonary disease. *BMJ Case Reports*. doi:10.1136/bcr-2016-215445.

- Malik, A., Kaur, C., Menon, B., Dar, M. Y., & Vardhan, H. (2015). Evaluation of protease-antiprotease imbalance in moderate COPD without antitrypsin deficiency. *European Respiratory Journal*, 46(suppl 59), PA3619. doi:10.1183/13993003.congress-2015.pa3619
- Menon, B., Kaur, C., Vardhan, H., & Yusuf Dar, M. (2016). Placebo controlled trial of vitamin D supplementation in allergic Rhinitis. *Research*, 3,. doi:10.13070/rs.en.3.1501.
- Menon, B., Kaur, C., Vardhan, H., & Yusuf Dar, M. (2016). Placebo controlled trial of vitamin D supplementation in allergic Rhinitis. *Research*, 3,. doi:10.13070/rs.en.3.1501.
- Mir, E., Sareen, R., Kulshreshtha, R. & Shah, A. (2015). Bronchioloalveolar cell carcinoma presenting as a “non-resolving consolidation” for two years. *Pneumonologia i Alergologia Polska*, 83, 208–211.
- Nima, G., Menon, B., & Jha, S. (2015). Evaluation of vitamin D in asthma: Its effect on inflammatory markers and clinical profile: Table 1. *European Respiratory Journal*, 46(suppl 59), PA3959. doi:10.1183/13993003.congress-2015.pa3959.
- Pilaniya, V., Gera, K., Gothi, R., & Shah, A. (2015). Acute invasive pulmonary aspergillosis, shortly after occupational exposure to polluted muddy water, in a previously healthy subject. *Jornal Brasileiro de Pneumologia*, 41(5), 473–477.
- Pilaniya, V. (2016). Image diagnosis: Bronchioloalveolar carcinoma presenting as unilateral “Crazy-Paving” pattern on high-resolution computed tomography. *The Permanente Journal*. doi:10.7812/tpp/15-102.
- Pilaniya, V., Gera, K., Kunal, S., & Shah, A. (2016). Pulmonary tuberculosis masquerading as metastatic lung disease. *European Respiratory Review*, 25(139), 97–98.
- Poongadan, M. N., Gupta, N., & Kumar, R. (2016). Lifestyle factors and asthma in India — a case-control study. *Pneumonologia i Alergologia Polska*, 84(2), 104–108.
- Sahay, S., Gera, K., Bhargava, S. K., & Shah, A. (2016). Occurrence and impact of sinusitis in patients with asthma and/or allergic rhinitis. *Journal of Asthma*, 53(6), 635–643.
- Shah, A., Gera, K., & Panjabi, C. (2016). Childhood allergic bronchopulmonary aspergillosis presenting as a middle lobe syndrome. *Asia Pacific Allergy*, 6(1), 67-69.
- Shah, A., & Panjabi, C. (2016). Allergic Bronchopulmonary Aspergillosis: A perplexing clinical entity. *Allergy, Asthma & Immunology Research*, 8(4), 282-297.
- Sharma, P., Gaur, S. N., Goel, N., & Arora, N. (2015). Engineered hypoallergenic variants of osmotin demonstrate hypoallergenicity with in vitro and in vivo methods. *Molecular Immunology*, 64(1), 46–54.
- Sharma, P., Gaur, S. N., & Arora, N. (2014). Immunotherapy with B cell epitopes ameliorates inflammatory responses in Balb/c mice. *Clinical & Experimental Immunology*, 179(1), 128–136.
- Chhabra, S. (2015). Clinical application of spirometry in asthma: Why, when and how often? *Lung India*, 32(6), 635-638.



- Chhabra, S. K. (2015). Interpretation of spirometry: selection of predicted values and defining abnormality. *Indian J Chest Dis Allied Sci.*, 57, 91-105.
- Garg, T., Gera, K., Modi, N. & Shah, A. (2015) Intrathoracic goitre associated with pulmonary tuberculosis. *Indian J Tuberc.*, 62, 117-120.
- Gaur, S. N. (2015). *Evidence based allergology – State-of-the-art* at ICAAICON 2015.
- Gaur, S., & Bhati, G. (2015). Asthma and chronic obstructive pulmonary disease overlap syndrome: Decoding the enigma. *Indian Journal of Allergy, Asthma and Immunology*, 29(1), 1-2.
- Gaur, S. N. (2015). Guidelines for practice of allergen immunotherapy in India. In: *Raj Kumar, Ed. Respiratory Allergy: Diagnosis and Management*, Neelam Graphics, New Delhi, 283-319.
- Gaur, S. N. & Bhati, G. (2015). Toxic bronchiolitis following smoke inhalation (Chapter) in *Pulmonary clinics of India*, Ed. P. S. Shankar, Published by *Annals of Academy of Respiratory Medicine*, 186-188.
- Gupta, P., Dogra, V., Goel, N., Chowdhary, A., Prasad, R. & Gaur, S. N. (2015). An Unusual Cause of a Pulmonary Mass: Actinomycosis. *Indian J Chest Dis Allied Sci*, 57, 177-179.
- Khanna, M., Saxena, L., Gupta, S. & Gaur, S. N. (2015). A focus on respiratory tract infection as an important risk factor in COPD. *Insights Allergy Asthma Bronchitis*, 1(2:8), 1-3.
- Kotwani, A., Kumar, S., Swain, P., Suri, J., & Gaur, S. (2015). Antimicrobial drug prescribing patterns for community-acquired pneumonia in hospitalized patients: A retrospective pilot study from New Delhi, India. *Indian Journal of Pharmacology*, 47(4), 375-382.
- Kumar, R., Gupta, N., & Bisht, I. (2015). Inflammatory response to subcutaneous allergen-specific immunotherapy in patients with bronchial asthma and allergic rhinitis. *Indian Journal of Allergy, Asthma and Immunology*, 29(1), 7-13.
- Kumar, R., Kumar, M., Robinson, K., Shah, P., Bisht, I., & Gupta, N. (2015). Atmospheric pollen count in north Delhi region. *Indian Journal of Allergy, Asthma and Immunology*, 29(1), 32-39.
- Kumar, R., Gupta, N., Kanuga, J. & Kanuga, M. (2015). A Comparative Study of Skin Prick Test versus Serum-Specific IgE Measurement in Indian Patients with Bronchial Asthma and Allergic Rhinitis. *Indian Journal of Allergy, Asthma and Immunology*, 57, 81-85.
- Kumar, R., Singh, K., Nagar, J. K., Kumar, M., Mehto, U. K., Rai, G. & Gupta, N. (2015). Pollution levels at Cooking Place and Their Association with Respiratory Symptoms in Women in a Rural Area of Delhi-NCR. *Indian J Chest Dis Allied Sci*, 57, 225-231.
- Shah, A., Kunal, S., Gera, K., Pilaniya, V., Jain, S., & Gothi, R. (2016). “Crazy-paving” pattern: A characteristic presentation of pulmonary alveolar proteinosis and a review of the literature from India. *Lung India*, 33(3), 335-342.
- Nima, G., Dogra, V., Jha, S., & Menon, B. (2015). Evaluation of the radiological sequelae after treatment completion in new cases of pulmonary, pleural, and mediastinal tuberculosis. *Lung India*, 32(3), 241-245.

Mishra, A., Gaur, S. N., Lavasa, S., & Arora, N. (2015). In vitro assessment of allergenicity features and localization of probable IgE binding regions. *Food and Chemical Toxicology*, 84, 181–187.

Gupta, A., & Shah, A. (2011). Bronchial anthracofibrosis: An emerging pulmonary disease due to biomass fuel exposure [Review article]. *The International Journal of Tuberculosis and Lung Disease*, 15(5), 602–612.

Singh, M. & Kumar, R. (2015). A 54-Year-Old Man with Tracheomegaly, Tracheal Diverticulas and Bronchiectasis - Mounier-Kuhn Syndrome. *Indian J Allergy Asthma Immunol.*, 57, 113-115.

### **Inter-Institutional Collaboration**

Effect of air pollution and weather changes on exacerbation of asthma: A cohort study. (University College of Medical Sciences and Vallabhbai Patel Chest Institute)

## **RADIOLOGY (UCMS)**

### **Honours/ Distinctions**

Dr. L. Upreti is a recipient of National leader award by Delhi State Chapter of IRI, and a joint editor Indian Journal of Radiology and Imaging from January 2016-December, 2016

President elect Delhi State Chapter of Indian Radiological and Imaging Association from Feb. 2016 to Feb. 2017

Awarded with Academic Promotion Award from Delhi State Chapter of IRIA Feb. 2016

### **Publications**

Balesa, J., Rathi, V., Kumar, S., & Tandon, A. (2015). Chest Sonography in the Diagnosis of Pneumothorax. *The Indian Journal of Chest Diseases & Allied Sciences*, 57, 7–11.

Bansal, D. (2015). Intraparenchymal Angiomatous meningioma: A diagnostic dilemma. *JOURNAL OF CLINICAL AND DIAGNOSTIC RESEARCH*. doi:10.7860/jcdr/2015/15950.6602

Batra, V., Agrawal, M., Majumdar, K., Upreti, L., & Singh, D. (2015). Extensive osteolytic skull base amyloidoma simulating malignancy: A rare pseudotumor producing a diagnostic dilemma. *Journal of Cancer Research and Therapeutics*, 11(3), 646. doi:10.4103/0973-1482.137999

Gupta, N. (2015). Spontaneous Uterine rupture with expulsion of fetus: Ultrasonographic diagnosis. *Journal of Case Reports*. doi:10.17659/01.2015.0076

Mishra, B. (2016). Well differentiated papillary carcinoma of thyroid presenting as metastatic liver mass. *The Turkish Journal of Ear Nose and Throat*, 26(2), 109–113. doi:10.5606/kbbihtisas.2016.80090

Sirohi, S., Tandon, A., & Shrivastava, A. K. (2015). Effects of diagnostic radiation exposure on DNA by using  $\gamma$ H2AX as a biomarker. *Journal of Biomedical Reports*, 2, 49.

Upreti, L., & Gupta, N. (2015a). Imaging for diagnosis of foreign body aspiration in children? *Indian Pediatric*,52(8), 659–660.

Upreti, L., & Gupta, N. (2015b). Imaging for Diagnosis of Foreign Body Aspiration in Children. *Indian Pediatrics*,52, 659–660.

Upreti, L., Puri, S., Verma, A., & Sethi, S. (2015). Choledochal cyst of the cystic duct: Report of imaging findings in three cases and review of literature. *Indian Journal of Radiology and Imaging*, 25(3), 315. doi:10.4103/0971-3026.161468

### **Research Projects**

Dr. Anupama Tandon, Atomic Energy Regulatory Board (AERB) entitled “Leukocyte DNA damage as a biomarker for radiation exposure to patients undergoing MDCT”, Rs 5 lacs.

### **Conference Presentations**

Dr. L. Upreti was invited as Guest faculty at 69<sup>th</sup> Annual congress of the Indian radiological and imaging Association, Bhubaneswar Jan 21-24, 2016 and delivered lecture on “Ultrasound in abdominal emergencies”

Delivered a lecture on Imaging of small bowel tumors at the KSR IRIA friendship symposium held at New Delhi on 25<sup>th</sup> July 2015

Delivered a lecture on Imaging of Cranio vertebral junction at the CME of spine imaging organized by Delhi state chapter of IRIA on 30 May 2015

Delivered a lecture on Approach to small bowel tumors at the IRIA Resident Education Programme held at New Delhi from 17<sup>th</sup> to 19<sup>th</sup> April 2015

Dr. Shuchi Bhatt delivered a lecture on Imaging in Lung tumors in Delhi Imaging Update-2015 GIPMER, N Delhi.

Delivered a lecture on Imaging of Renal tumors in Update on Oncology Imaging and interventions conducted by Delhi State Chapter of IRIA- DSCI, Delhi.

Delivered a lecture on Congenital lung malformations in Annual National Conference of Indian Society Pediatric Radiology- Lucknow.

Delivered a lecture on Imaging Breast cancer in Breastcon-2015 SHKM Govt Medical College, Mewat, Haryana.

Delivered a lecture on Imaging of Pleura in Delhi Imaging update- 2016, AIIMS.

Dr. Anupama Tandon was at International Musculoskeletal Ultrasound conference 2015-8<sup>th</sup> to 11<sup>th</sup> oct 2015 at Dwarka New Delhi, India –as workshop hand holding faculty.

She also the co author in Poster presentation at 68<sup>th</sup> Annual Conference of IRIA at Kochi.

Pre-conference workshop Delhi Imaging Update (DIU) 2015- 27<sup>th</sup> Feb 2015- as invited faculty.

22nd annual conference NARCHI Delhi branch- 22<sup>nd</sup> and 23<sup>rd</sup> Aug 2015- as invited faculty.

IRIA Delhi musculoskeletal ultrasound workshop – 12<sup>th</sup> July 2015- as invited faculty.

IRIA Resident Education Programme 17-19 April 2015 at Dwarka New Delhi – invited as faculty.

Dr. Natasha Gupta conducted Dose reduction in pediatric CT 69<sup>th</sup> National Conference of IRIA: Bhubaneswar, Odisha: Jan. 2016.

Imaging of GI anomalies in children, International Conference- Pediatric Gastroenterology, Hepatobiliary, Transplant and Nutrition-2016, Jaipur, Rajasthan 11.02.2016 to 14.02.2016.

Spots Film Reading session at Delhi Imaging Update 2016, Delhi, Feb. 2016.

M. Sarthak Swarup, L. Upreti, N. Gupta, S Agrawal, P Sihag, P. Srivastava, “Congenital Cranio Vertebral Junction Anomalies: A Pictorial Review” at the 69<sup>th</sup> national conference of the Indian radiological and imaging Association, Bhubaneswar Jan 21- Jan 24, 2015.

Neha Meena, L. Upreti, N. Gupta, S. Bhatt, A. Tandon, M. S. Swarup, “PNS masses: A pictorial review” at the 69<sup>th</sup> national conference of the Indian radiological and imaging Association, Bhubaneswar Jan 21- Jan 24, 2015.

M. Sarthak Swarup, L. Upreti, V. Rathi, N. Gupta, Deepika, P. Srivastava, N. Meena, “Unusual Parotid lesions : A pictorial review” at the at the 69<sup>th</sup> national conference of the Indian radiological and imaging Association, Bhubaneswar Jan 21- Jan 24, 2015.

## VALLABHBHAI PATEL CHEST INSTITUTE

### Major Activities and Achievements

Academic activities mainly included conducting teaching / training in Post-graduate Medical courses viz. DM, MD & PhD in Pulmonary Medicine. The Institute is also involved in research, organization of lectures, CMEs, workshops, symposia etc.

Some major research projects pursued included – Occurrence and impact of bronchiectasis in patients with COPD; Upper airway symptoms and quality of life in smokers versus never-smokers; Indoor air pollution and asthma in children; Effect of environmental tobacco smoke exposure on the respiratory health of rural children Delhi-NCR; Role of innate immune response mechanisms in development of bleomycin induced lung fibrosis; CRTase induced epigenetic modulation via acetylation by the novel mechanism in the gene expression profile of lung carcinogenesis using various polyphenols and their synthetic analogue; Anti-oxidant intake prevents the collapsibility of the genioid muscles in the upper airways during chronic intermittent hypoxia by reducing their fatigability and the duration for the recovery from fatigue and preventing the conversion of slow fatigue resistant muscle fibers to fast fatigable fibers in rats; Vit D in allergic conditions, Bronchial anthracofibrosis in biomass fuel smoke, Prediction equations for spirometry in children, Inflammatory response to SCIT in asthma and rhinitis, SPT and Specific IgE pigeon hypersensitivity, Atmospheric pollen count, Lifestyle factors in asthma, Demonstrating that in the paraventricular nucleus of the hypothalamus, the pulmonary renal reflex is mediated through a glutamatergic pathway in rabbits; Antibiotic resistance mechanisms in Multidrug resistant bacterial pathogens, drug resistance profiling and molecular characterization and typing of M. tuberculosis isolates, Efflux pumps in Ethambutol resistance in M. tuberculosis, Role of nitric oxide (NO) and NO-mediated signaling pathways in the regulation of stress induced immunological changes in rats.

The Viswanathan Chest Hospital (VCH) attached to the Institute is a tertiary care Chest Hospital providing clinical expertise, diagnostic and treatment facilities with OPD, Indoor Ward, Respiratory Intensive Care Unit, Allergy

Clinic, Sleep Laboratory, National Centre of Respiratory Allergy, Asthma and Immunology, , Tobacco Cessation Clinic, Cardio-pulmonary Rehabilitation Clinic, Yoga Therapy and Research Centre and 24-hour Emergency services.

### **Honours /Distinctions**

Dr. Anuradha Chowdhary:

- Elected Fellow of Royal College of Pathologists (FRCPath), London, United Kingdom, September 2015.
- Awarded certificate for best paper at the 7th Advances against Aspergillosis Conference held during March 3-5, 2016 at Manchester UK.

### **Publications**

Raj, K., Jitendra, K. N., Nitin G., Pawan, K., Alka, S. K., & Shailendra, N. G. (2015). Indoor Air Pollution And Asthma In Children At Delhi India, *PneumonolAlergol Pol*, 83, 275-282.

Chhabra, S.K., Gupta, M., Ramaswamy, S., Dash, D.J., Bansal, V., & Deepak, K.K. (2015). Cardiac Sympathetic Dominance and Systemic Inflammation in COPD, *COPD*, 12, 552-9.

Menon, B., Dar, Y., Garg, T., Bhatia, H., & Kaur, C. (2015). Placebo controlled trial of vitamin D supplementation in allergic rhinitis (Abst), *Eur Respir J*, 46 (59), 271s.

Vishwajeet, R., Mujeeb, R., Neetu, B., Anju, S., Karuna, S., & Ajit. (2015). Role of Polyphenolic Acetates and Calreticulin Induced Hyperacetylation via Epigenetic Modulation on Apoptosis in Ehrlich Ascites Tumour Mice Model, *Asian Journal of Medical Sciences*, 7, 13-20.

Malini, S., & Jayanthi, G. (2016). Pulmonary Nocardiosis: Review of cases and an update. *Canadian Respiratory Journal* <http://dx.doi.org/10.1155/2016/7494202>.

Varma, B.M., & Prasad, R. (2015). Commentary: Dilemmas with ethionamide susceptibility testing of Mycobacterium tuberculosis: A microbiologist and physician's nightmare, *Indian J Med Res*. 142(5), 512-514.

Chowdhary, A., Singh, P.K., Kathuria, S.K., & Meis, J.F. (2015). Comparison of the Broth Microdilution Methods of the European Committee on Antimicrobial Susceptibility Testing and the Clinical and Laboratory Standards Institute for testing Isavuconazole, Posaconazole and Amphotericin B against molecularly identified species of Mucorales, *Antimicrob Agents Chemother*, 59, 7882-7887.

Chowdhary, A., Hagen, F., Curfs-Breuker, I., Madrid, H., Hoog G.S., & Meis, J.F. (2015). In vitro activity of eight antifungal drugs against a global collection of genotyped isolates of Exserohilum, *Antimicrob Agents Chemother*, 59, 1-4.

Chowdhary, A., Sharma, C., Kathuria, S., Hagen, F., & Meis, J.F. (2015). Prevalence and mechanism of triazole resistance in *Aspergillus fumigatus* in a referral chest hospital in Delhi, India and an update of the situation in Asia, *Front.Microbiol*, 6, 1-10.

Gulati, K., Chakraborti, A., & Ray, A. (2015). Gender Based Differences in Stress-induced Gastric Ulcer Formation and its Regulation by Nitric Oxide (NO): An Experimental Study, *Curr Pharm Design*, 21, 3395-3401.

## **Research Projects**

Following projects were carried out in the department:

“Genetic Association study of Polymorphisms related to Chronic Obstructive Pulmonary Disease and its measures in north Indian population: COPD Genetics Consortium”.

“Indoor Air Pollution and Asthma Exacerbation in Children: A Population Based Study”.

“Multidisciplinary Research Project: Extracellular matrix remodelling and expression of matrix metalloproteinases in pulmonary fibrosis”.

“A study on CRHR1 and GR gene polymorphism and their correlation with the expression of various inflammatory cytokines in asthma in North Indian population”.

“To investigate the role of Juxta-pulmonary capillary (J) receptors in reduction of exertional breathlessness with supplemental O<sub>2</sub> routinely received by class of ILD patients who desaturate on exertion”.

“Phenotypic and Genotypic Indicators of drug resistant tuberculosis: Can they be used as early warning systems for MDR and XDR tuberculosis?”

## **Conferences Organized**

Continuing Medical Education (CME) on “Nitric oxide: from research to application” on 6<sup>th</sup> April 2015.

Continuing Medical Education (CME) on Clinical Trials: Perspectives and Trends in collaboration with Daiichi Sankyo India Development and Indian Pharmaceutical Society on 14<sup>th</sup> May 2015

Workshop on Sleep Study in association with Society for Tobacco Control and National College of Chest Physicians (India) on 6<sup>th</sup> July 2015.

40<sup>th</sup> Workshop on respiratory allergy : Diagnosis and Management on 23<sup>rd</sup> October 2015..

## **Inter-Institutional Collaboration**

Department of Medical Microbiology, Canisius Wilhelmina Hospital, Radboud University, Nijmegen the Netherlands.

Mycotic Diseases Branch, Centers For Disease Control & Prevention, Atlanta, USA.

Defence Institute of Physiology and Allied Sciences, DRDO, Timarpur Delhi University College of Medical Sciences, Delhi.

Centre for Physiotherapy and Rehabilitation Sciences, Jamia Milia Islamia

## **No. of Ph.D. Degrees Awarded**

Total: 14

Pulmonary Medicine: 01

Biochemistry: 01

Physiology:	02 + 01 declared qualified for award
Microbiology:	04
Pathology:	01
Pharmacology:	04

**Faculty Strength:** Permanent- 18

### **Other Significant Information**

The Institute has one of the best library in the field of Pulmonary Disease and Allied Sciences having 10056 Books, J-23206 bound Journals, 160 CD's, 517 Thesis and 13 National and International Reports. The Library follows an open Access system. Library is equipped with modern information technology equipment's and continues to provide Internet/ Email services to the users to access CAS (Current Awareness Services) and SDI (Selective Dissemination of Information) services. Library uses "LibSys 4.0" Software package, which is an integrated multi-user library management system.

## **FACULTY OF INTERDISCIPLINARY AND APPLIED SCIENCES**

### **BIOCHEMISTRY**

#### **Major Activities and Achievements**

The Department of Biochemistry offers an M.Sc. programme and a Ph.D. programme. The department also participates in an interdisciplinary M.Phil. course in Biotechnology. The department is supported by UGC-SAP and DST-Purse grants. The faculty members are deeply involved in research, which is centered on the general theme of "Molecular strategies to combat various human diseases".

Prof. P.C. Ghosh's laboratory has developed a stearylamine (SA) bearing liposomal delivery of monensin which is more effective than a comparable dose of free monensin in suppression of *Plasmodium falciparum* (3D7) in culture and *Plasmodium berghei* infection in mice model. This formulation in combination with artemisinin significantly reduced the parasite growth under *in vitro* and *in vivo* condition. Professor Vijay Chaudhary's laboratory has produced reagents for the immunochemical detection of Chikungunya Virus (CHIKV) infection. These include recombinant envelope proteins E1 and E2 and dozens of monoclonal antibodies against these proteins. Several of these Mabs have been characterized for binding to CHIKV. Dr. Suman Kundu achieved the success of solving the three-dimensional structure of a plant hemoglobin (*Arabidopsis*Hb 3) and demonstrated the potential function of the N- and C-terminal appendages of the protein for the first time. In collaboration with Alagappa University, he was also successful in using proteomics as a tool to demonstrate how the model organism *C. elegans* respond to bacterial infection, with the study having implications in understanding of host-pathogen interaction in humans. Dr. Alo Nag's research demonstrated how the oncogenic human papillomavirus 16E7 modulates SUMOylation of FoxM1b, thus providing a crucial piece of connection between post-translational modification of FoXM1b and HPV carcinogenesis, which could lead to potential novel therapeutics.. Moreover, Dr. Alo Nag and Dr. Kundu jointly filed a provisional patent for novel peptide based therapeutics against cervical cancer, one of the topmost health menace for Indian women. Dr. Amita Gupta's laboratory has elucidated a novel mechanism for regulation of activity of Toxin-Antitoxin loci under different stress conditions in *Mycobacterium tuberculosis*.

The department successfully won the second phase of the UGC-SAP programme for its seminal contribution to the development of molecular strategies to combat various human diseases. The quantum of funding sanctioned was over 1 crore for 5 years.

## Honours / Distinctions

Prof. P.C. Ghosh won Prof. M.L. Khorana Memorial Prize, June 5, 2015, for Publishing best paper in the field of Pharmacology & Clinical Pharmacy in Indian Journal of Pharmaceutical Science for the year 2013. Award conferred by Indian Pharmaceutical Association (IPA)

Prof. Debi P. Sarkar was awarded J.C. Bose National Fellowship from DST for the second term for five years (2015-2020).

Prof. Debi P. Sarkar was elected Member, Sectional Committee no X (Cell and Biomolecular Sciences) for selection of INSA fellow, 2015-2018.

Prof. Debi P. Sarkar was elected Member, Sectional Committee, Indian Academy of Sciences (Bangalore) Fellows in General Biology, 2016-2019

Prof. Alo Nag was elected Expert, DBT sponsored Biotech Industrial Training Programme (BITP) for evaluation of participating companies.

## Publications

A total of 22 research papers were published during 2015-2016 by the faculty of Department. List of publications is as follows:

Dudha N., Rana J., Rajasekharan S., Gabrani R., Gupta A., Chaudhary V.K., Gupta S. (2015). Host-pathogen interactome analysis of Chikungunya virus envelope proteins E1 and E2. *Virus Genes*. 50(2):200-9. doi: 10.1007/s11262-014-1161-x.

Gupta, E., Pachauri, M., Ghosh, P.C. and Rajam, M.V. (2016) Targeting polyamine biosynthetic pathway through RNAi causes the abrogation of MCF 7 breast cancer cell line. *Tumour Biol*. 37(1):1159-71.

Jaiswal, N., John, R., Chand, V. & Nag, A. (2015) Oncogenic Human Papillomavirus16E7 modulates SUMOylation of FoxM1b. *The International Journal of Biochemistry & Cell Biology*, 58C, 28-38.

Jebamercy, G., Durai, S., Marudhupandian, S., Dasauni, P., Kundu, S. and Balamurugan, K. (2016) Role of DAF-2 in *Caenorhabditis elegans* immunity against *Proteus mirabilis* infection. *J Proteomics*. 145, 81-90.

Jha, D., Raza, M., Adak, T., and Ghosh, P.C. (2016). Alteration in *Plasmodium falciparum* proteome upon treatment with various anti-malarial drugs. *J Proteins Proteomics* 7(1) 1-17.

Kumar, A., Arya, R., Makwana, P., Dangi, R., Yadav, U., Surolia, A., Kundu, S. & Sundd, M. (2015). The structure of the holo-acyl carrier protein of *Leishmania major* displays a remarkably different phosphopantetheinyl transferase (PPT) binding interface. *Biochemistry*, 54, 5632-5645.

Mukhi, N., Dhindwal, S., Uppal, S., Kapoor, A., Arya, R., Kumar, P., Kaur, J. and Kundu, S. (2016) Structural and functional significance of the N- and C-terminal appendages in *Arabidopsis* truncated hemoglobin. *Biochemistry* 55(12), 1724-1740.

Pachauri, M., Gupta, E. and Ghosh, P.C. (2015). Piperine Loaded PEG-PLGA Nanoparticles: Preparation, Characterization and Targeted Delivery for Adjuvant Breast Cancer Chemotherapy. *J Drug Delivery Science Technol*, 29: 269–282.



Pallavi S., Anoop K., Showket H., Alo N., Mausumi B. (2015). NFKB1/NFKB1a polymorphisms are associated with the progression of cervical carcinoma in HPV-infected postmenopausal women from rural area. *Tumour Biol.* 36(8):6265-76. doi: 10.1007/s13277-015-3312-7.

Rajasekharan S., Kumar K., Rana J., Gupta A., Chaudhary V.K., Gupta S. (2015). Host interactions of Chandipura virus matrix protein. *Acta Trop.* 149:27-31. doi: 10.1016/j.actatropica.2015.04.027.

Rajendran, V., Rohra, S., Raza, M., Hasan, G.M., Dutt, S., and Ghosh, P.C. (2016) Stearylamine Liposomal Delivery of Monensin in Combination with Free Artemisinin Eliminates Blood Stages of *Plasmodium falciparum* in Culture and *P. berghei* Infection in Murine Malaria. *Antimicrob Agents Chemother* 60(3), 1304-1318.

Sharma, S., Kumar, A., Kundu, S.\* & Bandhopadhyay, P.\* (2015) Molecular dynamics simulations indicate that TyrosineB10 limits motions of distal Histidine to regulate CO binding in soybean leghemoglobin. *Proteins: Structure Function, Bioinformatics*, 83, 1836-1848.

Sharma, S., Rajmani, R.S., Kumar, A., Bhaskar, A., Singh, A., Manivel, V., Tyagi, A.K. and Rao, K.V. (2015) Differential proteomics approach to identify putative protective antigens of *Mycobacterium tuberculosis* presented during early stages of macrophage infection and their evaluation as DNA vaccines. *Indian J Exp Biol*, 53, 429-439.

Singh V., Kaur C., Chaudhary V.K., Rao K.V., Chatterjee S. (2015) *M. tuberculosis* Secretory Protein ESAT-6 Induces Metabolic Flux Perturbations to Drive Foamy Macrophage Differentiation. *Sci Rep.* 2015 Aug 7;5:12906. doi: 10.1038/srep12906.

Singh, A.K., Rajendran, V., Pant, A., Ghosh, P.C., Singh, N., Lata, N., Garg, S., Pandey, K., Singh, B.K. & Singh, B. (2015). Design, synthesis and biological evaluation of functionalized Phthalimides: A new class of antimalarials and inhibitors of falcipain-2, a major Hemoglobinase of malaria parasites. *Bioorganic Medicinal Chem.* 23 (8), 1817-1827.

Singh, Anil K., S. R., Yan Tang, Nathan E. Goldfarb, Ben M. Dunn, Vinoth Rajendran, Ghosh, P.C. Neelu Singh, N. Latha, Brajendra K Singh, Manmeet Rawat and Brijesh Rathi (2015) Hydroxyethylamine Based Phthalimides As New Class of Plasmeprin Hits: Design, Synthesis and Antimalarial Evaluation. *PLoS One* 2015 Oct 26;10(10):e0139347.

Singh, K., Shandilya, M., Kundu, S.\* & Kayastha, A.M.\* (2015) Heat, acid and chemically induced unfolding pathways, conformational stability and structure-function relationship in wheat  $\alpha$ -amylase. *PLoS One.* 10(6):e0129203.

Singhal, P., Sharma, U, Hussain, S, Nag, A. and Bharadwaj, M. (2016) Identification of genetic variants in TNF receptor 2 which are associated with the development of cervical carcinoma. *Biomarkers* May 4:1-8. <http://dx.doi.org/10.3109/1354750X.2016.1172109>.

Tyagi, N., Tyagi, M., Pachauri, M. and Ghosh, P.C. (2015) Potential therapeutic applications of plant toxin-ricin in cancer: challenges and advances. *Tumor Biology* 36:8239–8246.

Uppal, S., Salhotra, S., Mukhi, N., Zaidi, F.K, Seal, M., Ghosh Dey, S., Bhat, R. & Kundu, S. (2015) Significantly enhanced heme retention ability of myoglobin engineered to mimic the third covalent linkage by non-axial histidine to heme (vinyl) in *Synechocystis* hemoglobin. *Journal of Biological Chemistry* 290, 1979-1993.

Vigneshkumar, B., Durai, S., Kundu, S. and Balamurugan, K. (2016) Proteome Analysis Reveals Translational Inhibition of *Caenorhabditis elegans* enhances susceptibility to *Pseudomonas aeruginosa* PAO1 pathogenesis. *J Proteomics.* 145, 141-152.

Yadav, R., Kundu, S. & Sarkar, S. (2015) *Drosophila* glob1 expresses dynamically and is required for development and oxidative stress response. *Genesis*, 53, 719-737.

### **Research Projects**

There are 18 on-going projects in the department, which received a total grant of Rs.362 lacs during 2015-16. In addition, the faculty members of the department received a total of Rs.36.25 lacs from DST-Purse grant, and Rs.21.0 lacs as Research and Development Grant from University of Delhi during 2015-16.

The following projects were granted in the year 2015-16:

Prof. Suman Kundu, UGC-DAE, April 2015 to March 2017, Understanding the structure of *Leishmania major* phosphopantetheinyl transferase (LmjPPTase) and its interaction with cognate ACP, Rs.7.902 lacs.

Prof. Suman Kundu, DBT, June 2015- June 2018, Development of potent small molecule inhibitors against dopamine beta-hydroxylase to combat cardiovascular diseases, Rs.78.903 lacs.

Prof. Suman Kundu, DBT, Dec 2015 to Dec 2020, Systems biology of complex diseases: From genetic findings to lead molecule development for Rheumatoid arthritis- Centre of Excellence in Genome Sciences and Predictive Medicine (Phase II) (Coordinator: B.K. Thelma), Rs.60.62 lacs.

### **Conferences Organized**

Organized “Genome Biology and Big Data Bioinformatics” at Biotech Centre Auditorium, University of Delhi South Campus, March 29, 2016.

Organized “Frontiers in Proteomics Research” at S.P. Jain Auditorium, University of Delhi South Campus, March 18, 2016.

Organized National Workshop on “Genome Informatics, Microarray Facility” at University of Delhi South Campus, July 15-18, 2015.

### **Inter-Institutional Collaboration**

Prof. Debi P. Sarkar has a collaborative project with Dr. Saumitra Das, Dept. of Microbiology and Cell Biology, Indian Institute of Science, Bangalore on Inhibition of HCV RNA translational and replication using small RNAs (2015-2018), Rs.40 lacs.

Prof. Suman Kundu has a collaborative project with Prof. N. Ramesh, IIT Delhi, New Delhi; Prof. S. Maulik, AIIMS, New Delhi on Development of potent small molecule inhibitors against dopamine beta-hydroxylase to combat cardiovascular diseases (2015-2018), Rs.78.903 lacs.

Prof. Alo Nag has a collaborative project with Dr. Mausumi Bharadwaj, Institute of Cytology and Preventive Oncology, Noida, UP on Host and Viral gene interaction and their regulation during development of Cervical cancer and identification of pre-diagnostic markers of Cervical cancer (2015-2016).

**M.Phil./Ph.D. degrees awarded:** Total : 06

**Faculty strength :** Permanent - 09

## BIOPHYSICS

### Major Activities and Achievements

The laboratory of Dr. Manisha Goel has been working on solving structures of various proteins through crystallography. CsaA, a chaperone rarely found in archaea was crystallized and X-ray diffraction data was collected, which is expected to throw light on the evolution and function of this protein. GGT from *B.licheniformis* was crystallized in the presence of various inhibitors. To help in comparative analysis of protein folding systems in archaea vis-à-vis eukaryotes and bacteria, a database of Archaeal chaperones (CrAgDb) was created. In the laboratory of Dr. Subhendu Ghosh, the emphasis is on investigating the role of phosphorylation by MAP kinase (JNK3) in regulation of Voltage Dependent Anion Channel (VDAC), which is important in mitochondria mediated apoptosis. The role of Bax and Bif 1 proteins in apoptosis has been investigated through bilayer electrophysiological studies. The open channel noise of the current through S6 domain of KvAP (a potassium channel) on BLM has also been analysed. The laboratory of Dr. Manish Kumar works on elucidating the mechanisms of “microbial resistance” and comparative analysis of different proteins in antibiotic resistance and non-resistance *M. tuberculosis* was completed. Relationship between VFs and AMC-resistance phenotype in clinical isolates of *Y. enterocolitica* biovar 1A was also evaluated.

### Honours/ Distinctions

Dr. Manish Kumar (with his team of Ph.D. students) won the first prize in BIRAC Idea-thon on Anti-Microbial Resistance organized by Biotechnology Industry Research Assistance Council (BIRAC) a not-for-profit organization set up by Department of Biotechnology (DBT), Government of India.

### Publications

A total of 10 research papers were published during 2015-2016 by the faculty of the Department.

Shrivastava, R., Malik, C. & Ghosh, S. (2016). Open channel current noise analysis of S6 peptides from KvAP channel on bilayer lipid membrane shows bimodal power law scaling. *Physica A*, 451, 533-540.

Gupta, R. & Ghosh, S. (2015) Bax and Bif-1 proteins interact on Bilayer Lipid Membrane and form pore. *Biochem. Biophys. Research Comm.* 463, 751-755.

Gupta, R. & Ghosh, S. (2015) Phosphorylation of Voltage-Dependent Anion Channel by c-Jun N-terminal Kinase-3 leads to Closure of the Channel. *Biochem. Biophys. Research Comm.* 459, 100-106.

Talukdar, S. & Ghosh, S. (2015) How Repeated Listening helps Learning a Musical Pattern? *Proceedings of the International Symposium: Frontiers of Research on Speech & Music*, IIT Kharagpur, pp 86-89.

Singh, Y., Gupta, N., Verma, V.V., Goel, M. & Gupta, R. (2016) Selective disruption of disulphide bonds lowered activation energy and improved catalytic efficiency in TALipB from *Trichosporon asahii* MSR54: MD simulations revealed flexible lid and extended substrate binding area in the mutant. *Biochem Biophys Res Commun.* 472(1):223-30.

Verma V.V., Gupta, R., & Goel, M. (2015) Phylogenetic and evolutionary analysis of functional divergence among Gamma glutamyl transpeptidase (GGT) subfamilies. *Biology Direct.* 14;10:49. doi: 10.1186/s13062-015-0080-7.

Rani, S., Srivastava, A., Kumar, M., & Goel, M. (2016) CrAgDb-a database of annotated chaperone repertoire in archaeal genomes. FEMS Microbiol Lett. 363(6). pii: fnw030. doi: 10.1093/femsle/fnw030.

Singhal, N., Kumar, M., & Viridi, J.S. (2016) Resistance to amoxicillin-clavulanate and its relation to virulence-related factors in *Yersinia enterocolitica* biovar 1A. Indian J Med Microbiol. 34(1):85-7. doi: 10.4103/0255-0857.174125.

Singhal, N., Kumar, M., Sharma, D. & Bisht, D. (2016) Comparative Protein Profiling of Intraphagosomal Expressed Proteins of *Mycobacterium bovis* BCG. Protein Pept Lett. 23(1).

Singhal, N., Kumar, M., Kanaujia, P.K. & Viridi, J.S. (2015) MALDI-TOF mass spectrometry: an emerging technology for microbial identification and diagnosis. Front Microbiol. 6:791. doi: 10.3389/fmicb.2015.00791. eCollection 2015.

### **Research Projects**

Dr. Manisha Goel, DBT-RGYI (Rapid Grant for Young Investigator), 2012-16 (3+ 1 yr extension) titled "Crystallographic structure determination of CRISPR-CAS proteins", 23.0 Lacs.

### **Conference Presentations**

The faculty member delivered several invited talks

Dr. Manish Kumar

- Invited speaker (also conducted hands-on session) in ICAR-National Bureau of Agriculturally Important Microorganisms, Mau (U.P.) in Bioinformatics based genomic and proteomic data analysis in microbial domain, 04-09 March 2016.
- Invited speaker in Annual Microbiology Festival "Microquest-16" at Bhaskaracharya College of Applied Sciences, New Delhi, 16 March 2016.
- Poster presentation, Annual Conference of Indian Association of Medical Microbiologists held at Pondicherry, 27-29 November 2015.

Dr. Subhendu Ghosh

- Invited speaker at International Symposium: Frontiers of Research on Speech & Music, IIT Kharagpur, 23-24 November, 2015.
- Invited speaker at Chemistry & its Avenues, Hansraj College, 29<sup>th</sup> October, 2015.

### **Inter Institutional Collaboration**

*Dr. Subhendu Ghosh, with Prof. (Dr.) E. Ada Cavalcanti-Adam, Institute for Physical Chemistry, University of Heidelberg, Im Neuenheimer Feld 253, 69120 Heidelberg, Germany University of Sfax, Tunisia*

### **M. Phil./ Ph. D. Awarded**

M.Phil. Awarded : 1

**Faculty Strength:** Permanent: 3

## Other Significant Information

Dr. Subhendu Ghosh visited Technical University of Dresden, Germany as Visiting Research Scientist during 28.05.2015-19.07.2015.

## ELECTRONIC SCIENCE

### Major Activities and Achievements

The faculty members are actively engaged in research as well as supervision of research leading to the Ph.D. degree in the field of optical electronics, semiconductors, microwaves and microelectronics. The Department has national and international collaborations and several research projects funded by the UGC, CSIR, DST, DRDO, JSPS (Japan). Over the last year, in addition to continuation of theoretical research in fiber and integrated optical devices, experimental facilities in the area of optical fiber measurements have been created. Department also added Anechoic chamber facility. This year, first time M Tech. Sem III students have developed various CPW based microwave planar passive components and planar antennas in the department.

Apart from this, the Department organizes seminars, lectures and talks on a regular basis. This year IEEE-EDS Delhi Chapter organized IEEE-EDS Distinguished Lecturer Talk by Prof. Juin J. Liou on "Outlook and Challenges of Electrostatic Discharge (ESD) Protection of Modern and Future Integrated Circuits" on December 14, 2015 at University of Delhi South Campus. A short course on Quantum Transport in Carbon-Based Devices by Prof. Vijay Arora, Wilkes University, U. S. A., Universiti Teknologi Malaysia was also organized by IEEE Electron Device Society in January 2015. Prof. Durga Misra from Electrical and Computer Engineering Department, New Jersey Institute of Technology, Newark, , USA was also invited to give IEEE-EDS Distinguished Lecturer Talk on "Creating a Perfect Dielectric-Semiconductor Interface with High-k Gate Dielectrics for sub-14nm CMOS Technology", in January 2016. Apart from this Department also organizes Annual Visitors' Program and this year leading experts from academia and industry were invited to interact with the students.

### Honours / Distinction

Prof. Mridula Gupta won best paper award for two papers entitled "Analysis of Cylindrical Gate Junctionless Tunnel Field Effect Transistor (CG-JL-TFET)" and "CSDG MOSFET: An Advanced novel architecture for CMOS technology" in the *International IEEE India Conference (INDICON)*, held at New Delhi, December 17-20, 2015.

### Publications

Abhishek, Narang R., Saxena M. & Gupta M. (2016). Impact of Interfacial Fixed Charges on the Electrical Characteristics of Pocket-Doped Double Gate Tunnel FET. *IEEE Transactions of Device and Material Reliability*, 16(2), 117-122.

Ajay, Narang R., Saxena M. & Gupta M. (2015). Drain Current Model of a Four-Gate Dielectric Modulated MOSFET for Application as a Biosensor. *IEEE Trans. On Electron Devices*, 62(8), 2636-2644.

Ajay, Narang R., Saxena M. & Gupta M. (2015). Investigation of dielectric modulated (DM) double gate(DG) junctionless MOSFETs for application as a biosensors. *Superlattices and Microstructure*, 85, 557-572.

Ajay, Narang R., Saxena M. & Gupta M. (2015). Analysis of gate underlap channel double gate MOS transistor for electrical detection of bio-Molecules. *Superlattices and Microstructures*, 88, 225-243.

Kumari V., Modi N. , Saxena M. & Gupta M. (2015). Modeling and Simulation of Double Gate Junctionless Transistor Considering Fringing Field Effects. *Solid State Electronics*, 107, 20-29.

- Kumari V., Modi N., Saxena M. & Gupta M. (2015). Theoretical Investigation of Dual Material Junctionless Double Gate Transistor for Analog and Digital Performance. *IEEE Trans. On Electron Devices*, 62(7), 2098-2105.
- Kumari V., Saxena M. & Gupta M. (2015). Modeling and Simulation of Nanoscale Lateral Gaussian Doped Channel Asymmetric Double Gate MOSFET. *Journal of Nano Research*, 36, 51-63.
- Kumari V., Ilango A., Saxena M. & Gupta M. (2016). Nanoscale T-shaped Double Gate DG MOSFET: Numerical Investigation for Analog/RF and Digital Performance. *Superlattices and Microstructure*, 89, 97-111.
- Kumar M., Haldar S., Gupta M. & Gupta R.S. (2016). Physics Based Analytical Model for Surface Potential and Subthreshold Current of Cylindrical Schottky Barrier Gate All Around MOSFET with High-k Gate Stack. *Superlattices and Microstructures Journal*, 90, 215-226.
- Narang R., Saxena M. & Gupta M. (2015). Comparative Analysis of Dielectric Modulated FET and TFET based Biosensor. *IEEE Trans. On Nanotechnology*, 14(3), 427 – 435.
- Pratap Y., Haldar S., Gupta R. S. & Gupta M. (2015). Localised Charge Dependent Threshold Voltage Analysis of Gate Material Engineered Junctionless Nanowire Transistor. *IEEE Transactions on Electron Devices*, 62(8), 2598 - 2605.
- Pratap Y., Gautam R., Haldar S., Gupta R. S. & Gupta M. (2016). Physics-Based Drain Current Modeling of Gate-All-Around Junctionless Nanowire Twin-Gate Transistor (JN-TGT) for Digital Applications. *Journal of Computational Electronics*, 15(2), 492-501.
- Sachin, Kumari V., Singh S., Saxena M. & Gupta M. (2015). Nanoscale-RingFET: An Analytical Drain Current Model Including SCEs. *IEEE Trans. On Electron Devices*, 62(12), 3965 - 3972.
- Upasana, Narang R., Saxena M. & Gupta M. (2015). Modeling and TCAD Assessment for Gate Material and Gate Dielectric Engineered TFET Architectures: Circuit-Level Investigation for Digital Applications. *IEEE Transactions on Electron Devices*, 62(10), 3348-3356.
- Upasana, Narang R., Saxena M. & Gupta M. (2016). Linearity and analog performance realization of energy efficient TFET based architectures: An Optimization for RFIC Design. *IETE Technical Review*, 33(1), 23-28.
- Upasana, Narang R., Saxena M. & Gupta M. (2016). Drain Current Model for Hetero-Dielectric based TFET Architectures: Accumulation to Inversion Mode Analysis. *Journal of Nano Research, Trans Tech publications*, 36, 31-43.
- Verma J. H. K., Haldar S., Gupta R. S., & Gupta M. (2015). Capacitance Modeling of Gate Material Engineered Cylindrical/Surrounded Gate MOSFETs for Sensor Applications. *Superlattices and Microstructures Journal*, 88, 271-280.
- Verma J. H. K., Haldar S., Gupta R. S., & Gupta M. (2015). Modeling and Simulation of Subthreshold behaviour of Cylindrical Surrounding Double Gate MOSFET for Enhanced Electrostatic. *Superlattices and Microstructures Journal*, 88, 354-364.
- Verma J. H. K., Haldar S., Gupta R. S., & Gupta M. (2016). Impact of Inner Charge Control Gate on CSG MOSFET for Improved Electrostatic Integrity and RF Performance. *Advanced Science Engineering and Medicine*, 8, 95-101.

Verma J. H. K, Haldar S., Gupta R. S., & Gupta M. (2016). Modeling and Simulation of Cylindrical Surrounding Double Gate (CSDG) MOSFET with Vacuum Gate dielectric for hot carrier reliability and RF Performance. *Journal of Computational Electronics*, 15(2), 657-665.

### **Research Projects**

Prof. Mridula Gupta (PI), University Grant Commission(UGC), 2015-Till date, Physics Based Modeling and Simulation of Channel Material Engineered Ring FET for Sensing Application, Rs.13.93 Lacs.

### **Conference Organized**

Prof. Juin J. Liou, Pegasus Distinguished Professor and Lockheed Martin St. Laurent Professor of Engineering University of Central Florida, Orlando, Florida, USA, "Outlook and Challenges of Electrostatic Discharge (ESD) Protection of Modern and Future Integrated Circuits", December 14, 2015.

Vijay Kumar Arora, Wilkes University, U. S. A., Universiti Teknologi Malaysia, "Short Course on Quantum Transport in Carbon-Based Devices", January 8, 2016.

Prof. Durga Misra, Electrical and Computer Engineering Department, New Jersey Institute of Technology, Newark, NJ 07102, USA, "Creating a Perfect Dielectric-Semiconductor Interface with High-k Gate Dielectrics for sub-14nm CMOS Technology", January 13, 2016.

### **Ph.Ds degree awarded: 4**

**Faculty Strength:** Permanent - 07, 1 BSR Fellow

## **GENETICS**

### **Major Activities and Achievements**

Department offers M.Sc. and Ph.D. program in Genetics. The department also coordinates an interdisciplinary M.Phil. course in Biotechnology. The Department is supported by UGC-DSA (DRS-III), DST-FIST (Level II) and DST-PURSE (Phase II) grants. Interdisciplinary research in the frontline areas of Microbial Genetics, Plant Genetics, Molecular Breeding and Biotechnology, Human Genetics, *Drosophila* Genetics, Yeast Genetics, Plant-Microbe Interactions, RNAi technology, Developmental Genetics and Molecular Biology are carried out in the department.

The major research achievements of the department is as follows:

The group of Profs. Deepak Pental and Pradeep K Burma transferred an insect resistant transgenic line of cotton carrying the *CryIAc* gene to Punjab Agricultural University and Central Institute for Cotton Research for introgressing the trait into cultivated varieties of cotton. Prof. Akshay Pradhan's laboratory constructed a high density integrated map and identified consensus QTL for yield related traits in *Brassica juncea*. Prof. M.V. Rajam's laboratory developed tomato and eggplant transgenics resistant to fungal pathogens and/or insect pests based on RNAi and other transgenic approaches. The group has also developed tomato plants for delayed ripening and improved fruit quality as well as male sterile lines by genetic manipulation of polyamine and ethylene levels during fruit development and anther development respectively. Dr. Jagreet Kaur's laboratory in collaboration with Dr. Pravindra Kumar at IIT Roorkee crystallized and biophysically characterized two *Arabidopsis non-symbiotic* hemoglobin proteins (Ahb1 and Ahb3). The mechanism of unintended effects of Cry1Ac protein on growth and development of transgenic plants is being elucidated by the group of Prof. Pradeep Burma.

Prof B.K.Thelma's group discovered two novel disease causing genes namely *PODXL* and *RIC3* for Parkinson's disease by whole exome sequencing. The group also identified 38 new susceptibility loci for inflammatory bowel disease using the immunochip and a trans-ethnic approach and novel regulatory variants in the distal promoter region of the dopamine- $\beta$ -hydroxylase gene by deep sequencing. The first ever demonstration of developmental function of *glob1* in *Drosophila melanogaster* and studies on the modifier efficiency of *Myc* for human neurodegenerative disorders was carried out in the laboratory of Dr. Surajit Sarkar. The group of Dr. Tapasya Srivastava has been involved in deciphering the various mechanisms contributing to induction of genomic instability in primary tumors and in model systems. Dr. Kaustav Datta's laboratory identified a novel GTPase that coordinates the level of large and small ribosomal subunit in yeast mitochondria. The mechanism of transcriptional regulation underlying growth and development of *Dictyostelium discoideum* by studying the function of bZIP transcription factors and PPIases is being unravelled in the laboratory of Dr. Aruna Naorem.

### Honours/Distinctions

Prof. M.V. Rajam was elected as Fellow of the Indian National Science Academy, New Delhi.

Prof. M.V. Rajam is serving as Associate Editor of BMC Biotechnology and Physiology Molecular Biology Plants and member Editorial Board of Cell & Developmental biology, Indian Journal of Biotechnology, Plant Cell Biotech. Molecular Biology and Journal of Plant Biochemistry and Biotechnology.

### Publications

A total of 18 research papers, 8 chapters in books, 2 edited books and 1 monograph were published during 2015-2016 by the faculty of the department. List of publications is as follows:

Bisht N.C.; Jagannath A.; Augustine R.; Burma P.K.; Pradhan A.K. & Pental D. (2015). Effective restoration of male-sterile (barnase) lines requires overlapping and higher levels of barstar expression: A multi-generation field analysis in *Brassica juncea*. J. Plant Biochem. Biotech. 24:393-399.

Chanu S.I. & Sarkar S. (2016). Targeted Downregulation of dMyc Suppresses Pathogenesis of Human Neuronal Tauopathies in *Drosophila* by Limiting Heterochromatin Relaxation and Tau Hyperphosphorylation. Mol Neurobiol. doi: 10.1007/s12035-016-9858-6.

Gogtay N. J.; Kapileshwar S.R.; Shah S.U.; Bendkhale S. R.; Ramakrishna S.; Sridharan K.; Thelma B K. et al. (2016). Evaluation of cytochrome P4502E1 polymorphisms in healthy adult Western Indians and patients with antituberculous drug-induced hepatotoxicity. Indian J Pharmacol. 48:42-46.

Gupta A. & Thelma B.K. (2016). Identification of critical variants within SLC44A4, an Ulcerative colitis susceptibility gene identified in a GWAS in north Indians. Genes & Immunity doi: 10.1038/gene.2015.53.

Gupta E.D.; Pachauri M.; Ghosh P.C.; & Rajam M.V. (2015). Targeting polyamine biosynthetic pathway through RNAi causes the abrogation of MCF7 breast cancer cell line. Tumour Biol. 2016 Jan;37(1):1159-71.

John J.; Bhatia T.; Kukshal P.; Chandra P.; Nimgaonkar V.L.; Deshpande S.N. & Thelma B.K. (2016) Association study of MiRSNPs with schizophrenia and related traits. Schizophrenia research (In press).

Liu J. Z.; Sommeren S.V.; Huang H.; Ng S.C.; Alberts R.; Takahashi A.; Ripke S., Thelma B.K. et al. (2015). Association analyses identify 38 susceptibility loci for inflammatory bowel disease and highlight shared genetic risk across populations. Nat Genet. 47(9), 979-86.

Mamta; Reddy K.R.K. & Rajam M.V. (2016). Targeting chitinase gene of *Helicoverpa armigera* by host-induced RNA interference confers insect resistance in tobacco and tomato. Plant Mol Biol. 90(3), 281-92.



- Mukhi N.; Dhindwal S.; Uppal S.; Kapoor A.; Arya R.; Kumar P.; Kaur J. & Kundu S. (2016). Structural and Functional Significance of the N- and C-Terminal Appendages in Arabidopsis Truncated Hemoglobin. *Biochemistry* 29;55:1724-40.
- Pandey R.; Gupta A.; Chowdhary A.; Pal R.K. & Rajam M.V. (2015). Over-expression of mouse ornithine decarboxylase gene under the control of fruit-specific promoter enhances fruit quality in tomato. *Plant Mol Biol.* 87(3), 249-60.
- Punchaichira T.J.; Prasad S.; Deshpande S.N. & Thelma B.K. (2016). Deep sequencing identifies novel regulatory variants in the distal promoter region of the dopamine- $\beta$ -hydroxylase gene. *Pharmacogenet Genomics.*
- Raj K.; Chanu S.I. & Sarkar S. (2015). Protein Misfolding and Aggregation in Neurodegenerative Disorders: Focus on Chaperone-Mediated Protein Folding Machinery. *International Journal of Neurology Research* 1:72-78.
- Sharma M.; Mukhopadhyay A.; Gupta V.; Pental D. & Pradhan A.K. (2016). *BjuB.CYP79F1* regulates synthesis of propyl fraction of aliphatic glucosinolates in oilseed mustard *Brassica juncea*. *PLoS One* 11: e0150060.
- Singh D.; Haicour R.; Sihachakr D. & Rajam M.V. (2015). Expression of rice chitinase gene in transgenic eggplant confers resistance to fungal wilts. *Indian J. Biotechnol.* 14: 233-240.
- Singh M.D.; Chanu S. I. & Sarkar S. (2016). Deciphering the Enigma of Human Poly(Q) Disorders: Contribution of *Drosophila melanogaster*. *International Journal of Neurology Research* 2: 216-223.
- Sudhaman S.; Muthane U.B.; Behari M.; Govindappa S.T.; Juyal R.C. & Thelma B.K. (2016). Evidence of mutations in RIC3 acetylcholine receptor chaperone as a novel cause of autosomal-dominant Parkinson's disease with non-motor phenotypes *J Med Genet* doi:10.1136/jmedgenet-2015-103616.
- Sudhaman S.; Prasad P. ;Behari M.; Muthane U.B.; Juyal R.C. &Thelma B.K. (2016). Discovery of a frameshift mutation in podocalyxinlike (PODXL) gene, coding for a neural adhesion molecule, as causal for autosomal-recessive juvenile Parkinsonism. *J Med Genet.* pii: jmedgenet-2015-103459. doi: 10.1136/jmedgenet-2015-103459.
- Yadav R.; Kundu S. & Sarkar S. (2015). *Drosophila* glob1 expresses dynamically and is required for development and oxidative stress response. *Genesis* 53:719-737.
- Choubey A. & Rajam M.V. (2015) Organellar Genomes of Flowering Plants. In: *Plant biotechnology: volume II: Plant genomics and biotechnology* (eds. Bir Bahadur *et al.*) Springer India, New Delhi. pp 179-204.
- Marco F.; Bitrián M.; Carrasco P.; Rajam M.V.; Alcázar R. & Tiburcio A.F. (2015). Genetic Engineering Strategies for Abiotic Stress Tolerance in Plants. In: *Plant biotechnology: volume II: Plant genomics and biotechnology* (eds. Bir Bahadur *et al.*) Springer India, New Delhi. pp 579-609.
- Pareek M.; Sachdev M.; Tetorya & Rajam M.V. (2015). Glass-bead and *Agrobacterium*-mediated genetic transformation of *Fusariumoxysporum*. In: *Genetic Transformation Systems in Fungi: Volume 1, Fungal Biology.* Van den Berg MA & Maruthachalam K (eds). Springer International Publishing, Switzerland. DOI 10.1007/978-3-319-10142-2\_16.
- Pareek M.; Yogindran S.; Mukherjee S.K. & Rajam M.V. (2015). Plant MicroRNAs: Biogenesis, Functions, and Applications. In: *Plant biotechnology: volume II: Plant genomics and biotechnology* (eds. Bir Bahadur *et al.*) Springer India, New Delhi. pp 639-661.
- Sivasubramanian R.; Mukhi N. & Kaur J. (2015). *Arabidopsis thaliana*: A model for plant research in *Plant Biology and Biotechnology: Volume II: Plant Genomics and Biotechnology*, Bir Bahadur *et al.* (eds.) DOI 10.1007/978-81-322-2283-5\_1, © Springer India 2015 Eds.
- Sowjanya Sree K. & Rajam M.V. (2015) Genetic engineering strategies for biotic stress tolerance in plants. In: *Plant biotechnology: volume II: Plant genomics and biotechnology* (eds. Bir Bahadur *et al.*) Springer India, New Delhi. pp 611-622.

Yogindran S. & Rajam M.V. (2015) RNA interference strategy for crop protection against insect pests. In: Bt resistance, characterization and strategies for GM crops producing *Bacillus thuringiensis* toxins (eds. Soberon M *et al.*). CABI biotechnology series 4. CAB International, Oxfordshire. pp 162-172.

Yogindran S. & Rajam M.V. (2015) RNAi for crop improvement. In: Plant biotechnology: volume II: Plant genomics and biotechnology (eds. Bir Bahadur *et al.*) Springer India, New Delhi. pp 623-637.

#### *Edited Books*

Eds. Bahadur B.; Rajam M.V.; Sahijram L.; & Krishnamurthy K. V. (2015). Plant Biology and Biotechnology: Volume I: Plant Diversity, Organization, Function and Improvement (2015). Springer India, New Delhi.

Eds. Bahadur B.; Rajam M.V.; Sahijram L.; & Krishnamurthy K. V. Plant Biology and Biotechnology: Volume II: Plant Genomics and Biotechnology (2015). Springer India, New Delhi.

#### *Editorial*

Yogindran S.; Ghosh A. & Rajam M.V. (2015). Artificial miRNAs for specific gene silencing and engineering virus resistance in plants. OMICS Journal: Cell Dev. Biol. 4 (3) DOI.org/10.4172/2168-9296.1000e137

#### **Research Projects**

There are 31 ongoing projects in the department. The following projects were granted in the year 2015-16:

Prof. Thelma B.K., DBT, 2015-20 entitled “Centre For Excellence In Genome Sciences And Predictive Medicine (GESPREM)- (Phase II): Systems biology of complex diseases: From genetic findings to lead molecule development for Rheumatoid arthritis”, Rs.718.0 Lacs.

Dr. Jagreet Kaur, DBT, 2015-18 entitled “Host mediated pathogen gene silencing: Developing a strategy for engineering resistance against necrotrophic pathogen *Sclerotiniasclerotiorum* in *Brassica juncea* (Indian mustard)”, Rs. 49.0 Lacs.

Dr. Jagreet Kaur, DBT, 2015-17 entitled “False smut resistance in Rice - Collaborative project with National Research Centre for Plant Biotechnology, IARI, Delhi, India.”, Rs. 14.0 Lacs.

Dr. Kaustuv Datta, SERB/DST, 2016-19 entitled “Regulation of mitochondrial function by a novel yeast clade specific DEXH/D box helicase, *YDR332w* (*IRC3*), in *Saccharomyces cerevisiae*”, Rs.50.0 Lacs.

Prof. M V Rajam, DBT, 2015-18 entitled “Development of transgenic cowpea for insect resistance through RNA interference technology”, Rs.33.47 Lacs.

#### **Inter-Institutional Collaboration**

Dr. Jagreet Kaur has a Collaborative project with National Research Centre for Plant Biotechnology, IARI, Delhi, on False smut resistance in Rice.

#### **M. Phil./Ph. D. Degrees Awarded**

Ph. D. Awarded : 7

M.Phil. Awarded (Biotechnology) : 5

**Faculty Strength:** Permanent : 9

## Other Significant Information

Prof. B.K. Thelma established the DBT supported Centre for Excellence in Genome Sciences and Predictive Medicine (GESPREM), Phase II.

Dr. Tapasya Srivastava was appointed Member, Institutional Ethics Committee, Central Council for Research in Homeopathy, New Delhi.

Prof. P.K. Burma was selected as a Team Leader to lead the Indian team for International Junior Science Olympiad held at Daeegu, Republic of Korea.

## MICROBIOLOGY

### Major Activities and Achievements

The Microbiology Department offers an M.Sc. program and a Ph.D. program in Microbiology. The Department is supported by UGC-SAP and DST-PURSE grants. The Department carries out research in two broad areas of microbiology: industrially important products/molecules and microbial pathogenicity.

In pursuit of industrially important products, phytase from *Sporotrichum thermophile*, acidic  $\alpha$ -amylase from acidophilic bacterium *Bacillus acidicola* and bifunctional cellulase-xylanase from *Bacillus halodurans* have been cloned and expressed extracellularly in *Pichia pastoris*. The alkalistable  $\alpha$ -carbonic anhydrase and  $\gamma$ -carbonic anhydrase from *B. halodurans* and *Aeribacillus pallidus* have been cloned and expressed in *Escherichia coli*. Enhanced production of  $\gamma$ -glutamyl transpeptidase enzyme from *Bacillus licheniformis* was achieved by manipulating salt stress in the production medium. A triacylglycerol hydrolase TALIP-B from *Trichosporon asahii* was heterologously expressed in *E. coli* and its catalytic efficiency was significantly improved by selective disruption of disulphide bonds. Further, phospholipase PLB-2 from same species was also expressed and used for degumming of crude mustard oil. The high level production of extracellular recombinant streptokinase was done in *Pichia pastoris* where a volumetric product concentration of 4.25 g/L was obtained in culture broth.

Towards a better understanding of various aspects of microbial pathogenicity, the prevalence of the genes encoding newer  $\beta$ -lactamases like CTX-M-15 ESBL, AmpC and Carbapenemases has been studied in *E.coli* strains isolated from India, from polluted urban aquatic environment. The study also revealed co-existence of genes conferring quinolone resistance in native *E.coli* strains harboring newer  $\beta$ -lactamases. The cellular biology of the protozoan parasite *Leishmaniadonovani* are being studied. The importance of histone modifications in modulating *Leishmania donovani* cellular events was analyzed using knockout lines of histone acetyltransferases HAT2, HAT3 and HAT4. The analyses of the phenotypes of the knockout lines have revealed that while HAT2 regulates DNA replication and transcription, HAT3 regulates DNA repair and HAT4 modulates cell cycle progression. Two human tumor-associated viruses i.e. Epstein Barr Virus (EBV) and Hepatitis C Virus (HCV) were studied in terms of their role in disease progression. Tumor associated viruses provide a unique opportunity to understand the role played by viral proteins in transformation and to identify pathways critical for tumorigenesis and metastasis.

### Honours/ Distinctions

Prof. J.S. Virdi and his team, along with collaborating team from Department of Biophysics were awarded the First Prize in DBT-BIRAC sponsored Idea-thon to develop a rapid test for detection of antibiotic resistance in bacteria.

Prof. T. Satyanarayana served as the President of the Association of Microbiologists of India.

## Publications

A total of 27 research papers/review articles were published during 2015-2016 by the faculty of the Department. List of publications is as follows:

Adivitiya, Dagar, V.K., Devi, N., & Khasa Y.P. (2016). "High level production of active streptokinase in *Pichia pastoris* fed-batch culture." *International Journal of Biological Macromolecules*. 83:50–60.

Bajaj, P., Kanaujia, P.K., Singh, N.S., Sharma, S., Kumar, S., & Viridi, J.S. (2016). Quinolone co-resistance in ESBL- or AmpC-producing *Escherichia coli* from an Indian urban aquatic environment and their public health implications. *Environ Sci Pollut Res* 23(2):1954-1959.

Bajaj, P., Singh, N.S., & Viridi, J.S. (2016). *Escherichia coli*  $\beta$ -Lactamases: What Really Matters. *Front Microbiol*. 30; 7: 417.

Bajaj, P., Singh, N.S., Kanaujia, P.K., & Viridi, J.S. (2015). Distribution and molecular characterization of genes encoding CTX-M and AmpC  $\beta$ -lactamases in *Escherichia coli* isolated from an Indian urban aquatic environment. *Sci Total Environ* 505:350-356.

Faridi, S. and Satyanarayana, T. (2016). Novel alkalistable  $\alpha$ -carbonic anhydrase from the polyextremophilic bacterium *Bacillus halodurans*: Characteristics and applicability in flue gas CO<sub>2</sub> sequestration. *Environmental Science & Pollution Research*. doi: 10.1007/s11356-016-6642-0

Gandhi, J., Gaur, N., Khera, L., Kaul\*, R., & Robertson,\*E. (\*Co-corresponding authors). (2015). COX-2 induces lytic reactivation of Epstein Barr Virus through Prostaglandin E2 by modulating the EP receptor signalling Pathway. *Virology*. 2015. Jun 4; 484:1-14.

Gaur, N., Gandhi, J., & Kaul, R. (2015). Epstein Barr Virus promote Cancer metastasis. *Virus Research*, Vol 4, No. 2 Dec 2015: 1-2.

Joshi, S. and Satyanarayana, T. (2015). Bioprocess for efficient production of recombinant *Pichia anomala* phytase and its applicability in dephytinizing chick feed and whole wheat flat Indian breads. *J Indust. Microbiol. Biotechnol*. 42: 42: 1389-1400.

Joshi, S. and Satyanarayana, T. (2015). Characteristics and applicability of phytase of the yeast *Pichia anomala* in synthesizing haloperoxidase. *Appl. Biochem. Biotechnol*. 176:1351–1369.

Joshi, S. and Satyanarayana, T. 2015. *In vitro* engineering of microbial enzymes with multifarious applications: Prospects and perspectives. *Bioresource Technol*. 176: 273-283.

Kanaujia, P.K., Bajaj, P., Kumar, S., Singhal, N., & Viridi, J.S. (2015). Proteomic analysis of *Yersinia enterocolitica* biovar 1A under iron-rich and iron-poor conditions indicate existence of efficiently regulated mechanisms of iron homeostasis. *J Proteomics*. Jun 21; 124: 39-49.

Kumar, V. and Satyanarayana, T. (2015). Generation of xylooligosaccharides from microwave irradiated agroresidues using recombinant thermo-alkali stable endoxylanase of the polyextremophilic bacterium *Bacillus halodurans* expressed in *Pichia pastoris*. *Biores. Technol*. 179: 382-389.

Kumar, D. & Saha, S. (2015). HAT3-mediated acetylation of PCNA precedes PCNA monoubiquitination following exposure to UV radiation in *Leishmania donovani*. *Nucleic Acids Res.* 43: 5423-5441.

Kumari, A., Satyanarayana, T. and Singh, B. (2016). Mixed substrate fermentation for enhanced phytase production by thermophilic mold *Sporotrichum thermophile* and its application in beneficiation of poultry feed. *Appl. Biochem. Biotechnol.* 178: 197-210.

Mehta, D. and Satyanarayana, T. (2015). Structural elements of thermostability in the maltogenic amylase of *Geobacillus thermoleovorans*. *Intern. J. Biol. Macromol.* 79: 570-576.

Nisha, M. and Satyanarayana, T. (2015). Characteristics of thermostable amylopullulanase of *Geobacillus thermoleovorans* and its truncated variants. *Intern. J. Biol. Macromol.* 76: 279-291.

Nisha, M. and Satyanarayana, T. (2015). The role of N1 domain on the activity, stability, substrate specificity and raw starch binding of amylopullulanase of the extreme thermophile *Geobacillus thermoleovorans*. *Appl. Microbiol. Biotechnol.* 99: 5461-5474.

Parashar, D. and Satyanarayana, T. (2016). A chimeric  $\alpha$ -amylase engineered from *Bacillus acidicola* and *Geobacillus thermoleovorans* with improved thermostability and catalytic efficiency. *J. Indust. Microbiol. Biotechnol.* 43: 473-484.

Ranjan, B. and Satyanarayana, T. (2015). Characteristics of recombinant phytase (rSt-Phy) of the thermophilic mould *Sporotrichum thermophile* and its applicability in dephytinizing foods. *Appl. Biochem. Biotechnol.* 177: 1753-1766.

Ranjan, B. and Satyanarayana, T. (2016). Recombinant HAP phytase of the thermophilic mould *Sporotrichum thermophile*: Expression of the codon optimized phytase gene in *Pichia pastoris* and applications. *Molecular Biotechnology* 58: 137-147.

Singh, B., Focas-Fonseca, M.J., Johri, B.N. and Satyanarayana, T. (2016). Thermophilic molds: Biology and applications. *Crit. Rev. Microbiol.* 42: 985-1006

Singh Y., Gupta N., Verma V.V., Goel M. and Gupta R. (2016). Selective disruption of disulphide bonds lowered activation energy and improved catalytic efficiency in TALipB from *Trichosporon asahii* MSR54: MD simulations revealed flexible lid and extended substrate binding area in the mutant. *Biochemical and Biophysical Research Communications.* 472(1):223-30

Singhal, N., Kumar, M., Kanaujia, P.K., & Viridi, J.S. (2015). MALDI-TOF mass spectrometry: an emerging technology for microbial identification and diagnosis. *Front Microbiol.* Aug 5;6:791.

Singhal, N., Srivastava, A., Kumar, M., & Viridi, J.S. (2015). Structural variabilities in  $\beta$ -lactamase (*blaA*) of different biovars of *Yersinia enterocolitica*: Implications for  $\beta$ -lactam antibiotic and  $\beta$ -lactamase inhibitor susceptibilities. *PLoS One* 10(4):e0123564

Shivlata, L. and Satyanarayana, T. (2015). Thermophilic and alkaliphilic Actinobacteria: Biology and potential applications. *Frontiers in Microbiol.* 6: article: 1014 pp. 1 – 29.

Singh Y. and Gupta R. (2015). Novel S-enantioselective lipase TALipB from *Trichosporon asahii* MSR54: Heterologous expression, characterization, conformational stability and homology modelling. *Enzyme and Microbial Technology*. 83:29–39.

Syal P. and Gupta R.(2015). Cloning, Expression, and Biochemical Characterization of an Enantioselective Lipase, YLIP9, from *Yarrowia lipolytica* MSR80, *Appl Biochem Biotechnol*, doi 10.1007/s12010-015-1561-y

### **Research Projects**

Prof. Rani Gupta, DBT-funded project, 2014-17 entitled “Genome-wide survey of lipase from *Yarrowia lipolytica*: cloning, expression, biochemical characterization and applications”, 44.5 Lacs.

Prof. Rani Gupta, R&D Grant from University of Delhi, 2015-16 entitled “Expression and characterization of Phospholipase B from *Trichosporonasahii*: application in degumming of crude oil ”, 3.0 Lacs

Prof. J. S. Viridi, ICMR-funded project, 2014-2017 entitled “Role of probiotic lactic acid bacteria in modulating antibiotic resistance in enteric pathogens, 40.0 Lacs.

Prof. J. S. Viridi, R&D Grant from University of Delhi, 2015-16 entitled “Characterization of inhibitor resistance beta-lactamase genes and their genetic environment in strains of *Escherichia coli* ”, 3.0 Lacs

Prof. Swati Saha, DST-funded project, 2015-2018, entitled “Investigating DNA replication protein Cdc45 in the protozoan parasite *Leishmania donovani*,” 49 Lacs.

Prof. Swati Saha, R&D Grant from University of Delhi, 2015-16, entitled “Role of histone acetylation events in regulating cellular processes”, 3.0 Lacs

Dr. Rajeev Kaul, R&D Grant from University of Delhi, 2015-16 entitled “Role of Epstein-Barr Virus latent antigens in cancer cell metastasis”, 3.0 Lacs

Dr. Y. P. Khasa, R&D Grant from University of Delhi, 2015-16 entitled “Human Tumor Necrosis Factor alpha production in *E. coli*: recombinant expression and its in vitro biological testing”, 3.0 Lacs

### **Conferences Organized**

*Prof. Bharat B. Aggarwal, Distinguished Professor of Cancer Research, University of Texas, Houston (USA), “Targetting inflammatory pathways by agents designed by mother nature for prevention and treatment of cancer”, October 20, 2015.*

*Dr. Rohit K. Jangra, Albert Einstein School of Medicine, New York (USA), “Genome-wide screens for identification of host factors required for viral infections”, March 28, 2016.*

### **Conference Presentations**

Prof. J.S. Viridi:

Delivered an invited lecture: Microbiology on the threshold of a revolution: Genomes, informatics and automation at Annual Conf. of Association of Microbiologists of India (AMI), Jawaharlal Nehru University, Dec 2015, New Delhi, India

Dr. Y.P. Khasa:

Delivered a lecture: “High level production of recombinant streptokinase in *Pichia pastoris* fed-batch fermentation” in International conference on Translational biotechnology “BioSangam 2016” MNNIT, Allahabad, UP, India.

Delivered a lecture: “Extracellular production of recombinant Streptokinase in *Pichia pastoris*” in National seminar on “Recent advances in Agriculture, Biomedical & Environmental Biotechnology” at Anand Engineering College, Agra.

#### **Inter Institutional Collaboration**

*Dr. Bijender Singh, MD University, Rohtak, Haryana*

*Dr. Debananda N, Manipur University, Imphal, Manipur.*

#### **M. Phil/Ph.D. Awarded**

Ph. D. Awarded : 07

M.Phil. Awarded : 01

#### **Faculty Strength**

Permanent: 07

#### **Other Significant Information**

The Department runs its own website [microbio.du.ac.in](http://microbio.du.ac.in). The information about the Department Faculty and Staff, Ongoing Research Areas, Admission policies, Courses run by the department, Syllabus, Seminars and other Departmental events are regularly updated on the website.

## **PHYSICAL EDUCATION & SPORTS SCIENCES**

#### **Major Activities and Achievements**

The current academic year has the distinction of conducting a workshop for developing Generic Course for Physical Education.

A Research Journal named Indian Journal of Physical Education & Sports Sciences Vol. 2 No.1 & 2, July, 2014, ISSN: 2320-7981 was published by the department.

#### **Honours/ Distinctions**

Dr. Rakesh Gupta was appointed as ‘Member, Advisory Board’ for the International Journal of multi-disciplinary Advanced Research, published by Balaji Astha Education & Welfare Society.

Dr. Rakesh Gupta was appointed as ‘Member, Advisory Board’ for the Journal of Health and Sports Sciences, published by Forum of Physical Education & Sports

Dr. Rakesh Gupta was appointed as Subject Expert in Editorial Board for the International Journal of Inter-disciplinary Approach, published by Indian Social Science Association

Dr. Rakesh Gupta was appointed as ‘Member, Sports Committee’ PHD Chamber of Commerce, New Delhi

Dr. Meenakshi was appointed as ‘Section Reviewer’ for the Indian Journal of Physical Education & Sports Sciences, ISSN 2320-7981.

Dr. Lalit Sharma was appointed as 'Resource Person' for one day workshop on Re-envisioning Physical Education on 6<sup>th</sup> September, 2014, organized by DAV Centenary Public School, Meerut (U.P.).

Dr. Lalit Sharma acted as 'Resource Person' for Sports Psychology during PGT Refresher Course on 27.06.2014

Dr. Lalit Sharma was appointed as a member, Board of Studies by School of Physical Education, Amity University, Noida (U.P.).

Dr. Lalit Sharma was appointed as 'External Member' for Faculty Research Committee meeting by Amity University, Noida (U.P.) on 17.06.2014.

Dr. Meenakshi acted as 'Resource Person' for workshop on Health & Physical Education, conducted by DIET during February 23 to March 2, 2015.

Dr. Dharmander Kumar was nominated as Manager for North Zone Inter-University Kabaddi (Men) Tournament by University of Delhi during 18-22 February, 2015

### **Publications**

Kumar, P., K. Dhankhar and A.K. Chhikara. A Comparative Study of Sports person and Non-Sports Person on Academic Achievement, Test Anxiety, Perceived Stress and Mindfulness.

Tiwari S. and Amrita. A Comparative Study of Perceived Social Support between Student Teachers' of Physical Education and Education.

### **Research Projects**

A total of 54 research projects in the field of physical education & sports sciences were carried on with a philosophy of inter-disciplinary & applied sciences during the session 2014-15. The outcomes of the research projects have also been utilized for the welfare of the society and to upgrade the status & potential of physical education & sports sciences. The projects were based upon the present & upcoming needs of the society so as to serve the society in a better and professional way.

### **Conferences Organized**

"International Congress on Sports Psychology" organized by the Institute and Department of Physical Education & Sports Sciences, University of Delhi and Sports Psychology Association of India, during 15-18 October, 2014 at Sir Shankar Lal Hall, University of Delhi.

Seminar on "Use of Technology and Innovation in Promoting Good Governance" and Competition on Oratory on 19<sup>th</sup> December, 2014 organized at Conference Hall, IGIPSS, Vikaspuri, New Delhi.

Workshop was organized to develop "Generic Course" in physical education for B.A. Programme. Numbers of Associate Professor & Assistant Professor has different colleges attended 3 days workshop.

### **Conference Presentations**

Dr. Rakesh Gupta presented a Concept Paper on 'Professional Preparation and Career Avenues in Physical Education and Sports Sciences at PHD Global Sports Convention-2014, on Sports for All – A Track Ahead, organized by PHD Chamber of Commerce on 12<sup>th</sup> August, 2014.

### **Inter-Institutional Collaboration**

International Congress on Sports Psychology on 15-18<sup>th</sup> October, 2014 at Sir Shankar Lal Hall, University of Delhi in collaboration with Sports Psychology Association of India



**Ph.D. degrees awarded:** 13

## **PLANT MOLECULAR BIOLOGY**

### **Major Activities and Achievements**

The work undertaken by the various faculty members revolves around Functional Analysis of Genes Regulating Plant Development with particular emphasis on Abiotic and Biotic Stress tolerance employing tools and techniques of Plant Molecular Biology and Biotechnology. The department has established itself as a major centre for Plant Genomics dealing with structural and functional analysis of genes of interest. The lab of Prof JP Khurana focuses on light sensory receptors, mainly on cryptochromes which perceive UV-A/blue light to regulate plant height and flowering time. Dr Sanjay Kapoor works on understanding the molecular aspects of male gametophyte development. The labs of Prof. Anil Grover and Prof. Paramjit Khuran focus on heat stress tolerance in important crops like rice and wheat, respectively. While the ClpB family is being investigated in detail in the former's lab the later uses a transcriptomic approach for functional analysis. Dr Indranil Dasgupta investigates the plant-viral interactions in rice and other plants and compares small RNAs important during viral infection. The labs of S. Raghuvanshi and Surekha Katiyar are engaged in deep sequencing and functional characterization of miRNA under drought conditions. Dr Arun Sharma's lab focuses on enhancing folate levels in tomato by various biotechnological approaches, and Dr Girdhar Pandey concentrates on unraveling the calcium mediated-signal transduction pathway in response to various environmental stimuli.

The Department has second phase funding by UGC under the SAP programme and the DST-FIST grant for infrastructure development.

### **Honours/Distinctions**

Professor J.P. Khurana was awarded Dr. B.P. Pal Memorial Lecture Award by the National Academy of Sciences India (NASI), in July 2015.

Professor J.P. Khurana was awarded Lifetime Achievement Award (2015) by Sci Genom Research Foundation, during the NGBT conference held in October 2015 at Hyderabad.

Professor P. Khurana was nominated NASI member to the Council, Indian National Science Academy, 2016.

Professor P. Khurana was appointed as Member, Sectional Committee on Plant Sciences, INSA, 2016

Professor Anil Grover was appointed as Guest Editor, Plant Reproduction journal (Springer; special issue on pollen development).

Professor Anil Grover was appointed as Member, National Committee, INSA-IUBS for 2016-2020.

Professor Anil Grover was nominated as Sir J.C. Bose National Fellow, Department of Science and Technology, Government of India for 2015-2020.

### **Publications**

A total of 45 research papers were published during 2015-2016 by the faculty of Department. List of publications is as follows:

- Dixit, S., Biswal, A.K., Min, A., Henry, A., Oane, R.H., Raorane, M.L., Longkumer, T., Pabuayon, I.M., Mutte, S.K., Vardarajan, A.R., Miro, B., Govindan, G., Pueffeld, B.A-E.M., Sreenivasulu, N., Slamet-Loedin, I., Sundarvelpandian, K., Tsai, Y-C., Raghuvanshi, S., Hsing, Y-I.C., Kumar, A., Kohli, A. (2015). Action of multiple intra-QTL genes concerted around a co-localized transcription factor underpins a large effect QTL. *Scientific Reports*. 5: 15183
- Hairat S. & Khurana, P. (2015). Evaluation of *Aegilops tauschii* and *Aegilops speltoides* for acquired thermotolerance: Implications in wheat breeding programmes. *Plant Physiol. Biochem.* 95: 65-74.
- Hairat S. & Khurana, P. (2015). Improving photosynthetic responses during recovery from heat treatments with brassinosteroid and calcium chloride in Indian bread wheat cultivars. *Amer. J. Plant Sci.* 6: 1827-1849.
- Jain, D., Khandal, H., Khurana, J.P. & Chattopadhyay, D. (2015). A pathogenesis related-10 protein CaARP functions as aldo/keto reductase to scavenge cytotoxic aldehydes. *Plant Mol. Biol.* 90: 171-187.
- Jaiswal, V., Gahlaut, V., Mathur, S., Agarwal, P., Khandelwal, M., Khurana, J.P., Tyagi, A.K., Balyan, H.S. & Gupta, P.K. (2015). Identification of novel SNP in promoter sequence of TaGW2-6A associated with grain weight and other agronomic traits in wheat (*Triticum aestivum* L.). *PLoS ONE* 10(6): e0129400.
- Kant, R., Sharma, S. & Dasgupta, I. (2015). Virus-induced gene silencing (VIGS) for functional genomics in rice using Rice tungro bacilliform virus (RTBV) as a vector. *Methods in Molecular Biology*. 1287: 201-217.
- Kaur, G., Singh, S., Singh, H., Chawla, M., Dutta, T., Kaur, H., Bender, K., Snedden, W.A., Kapoor., S. & Pareek, A. (2015). Characterization of Peptidyl-Prolyl Cis-Trans Isomerase-and Calmodulin-Binding Activity of a Cytosolic *Arabidopsis thaliana* Cyclophilin AtCyp19-3. *PLoS ONE*. 10: e0136692.
- Khurana, N., Chauhan, H., & Khurana, P. (2015). Characterization of a chloroplast localized wheat membrane protein (TaRCI) and its role in heat, drought and salinity stress tolerance in *Arabidopsis thaliana*. *Plant Gene*. 4: 45-54.
- Kumar, R., Jiwani, G., Pareek, A., Sravan Kumar, T., Khurana, A & Sharma, A.K. (2015). Evolutionary profiling of group II PLP-dependent decarboxylase gene family suggests expansion and functional diversification of histidine decarboxylases in tomato. *The Plant Genome*. 9(1): Doi: 10.3835/plantgenome2015.07.0057.
- Kumar, R., Singh, A.K., Negi, M. Lavania, D. Siddiqui, M.H. Al-Wahaibi, M.H. & Grover, A (2015). Cloning and transcript profiling of sHsp17.9-CII gene from faba bean (*Vicia faba* L.) plants. *Acta Physiol Plant*. 37: 190(DOI 10.1007/s11738-015-1943-3).
- Kumar, R., Singh, A.K., Negi, M. Lavania, D. Siddiqui, M.H. Al-Wahaibi, M.H. & Grover, A. (2015). Expression analysis of ClpB/Hsp100 gene in faba bean (*Vicia faba* L.) plants in response to heat stress. *Saudi Journal of Biological Sciences*. 23: 243-247 (DOI 10.1016/j.sjbs.2015.03.006).
- Kumar, V., Singh, A., Mithra, S.V.A., Krishnamurthy, S.L., Parida, S.K., Jain, S., Tiwari, K.K., Kumar, P. Rao, A.R., Sharma, S.K., Khurana, J.P., Singh, N.K. & Mohapatra, T. (2015). Genome-wide association mapping of salinity tolerance in rice (*Oryza sativa*). *DNA Res.* 1-13.
- Kushawaha, A.K., Rabindran, R. & Dasgupta, I. (2015). Phylogentic analysis and biolistic infectivity of cloned *sri lankan cassava mosaic virus* DNA-A from Tamil Nadu, India on *Nicotiana benthamiana*. *Acta Virologica*. 59(1): 57-63.
- Lavania, D., Siddiqui, M.H., Al-Wahaibi, M.H., Kumar, R., Singh, A.K. & Grover, A. (2015). Genetic approaches for breeding heat stress tolerance in faba bean (*Vicia faba* L.). *Acta Physiol Plant*. 37: 1-9.

Lavania, D., Dhingra, A., Siddiqui, M.H., Al-Wahaibi, M.H. & Grover, A. (2015). Current status of the production of high temperature tolerant transgenic crops for cultivation in warmer climates. *Plant Physiology and Biochemistry*. 86: 100-108.

Mani, B., Agarwal, M. & Katiyar-Agarwal, S. (2015). Comprehensive expression profiling of rice tetraspanin genes reveals diverse roles during development and abiotic stress. *Front. Plant Sci.* 6:1088.

Mishra, R.C., Richa, A. Singh & Grover, A. (2015). Characterization of 5'UTR of rice ClpB-C/Hsp100 gene: evidence of its involvement in post-transcriptional regulation. *Cell Stress Chaperone*. 21: 271-283.

Pandey, G.K., Kanwar, P., Singh, A., Steinhorst, L., Pandey, A., Yadav, A.K., Tokas, I., Sanyal, S., Beom-Kim, B-G, Lee, S.C., Cheong, Y.H., Kudla, J. & Luan, S. (2015). CBL-interacting protein kinase, CIPK21, regulates osmotic and salt stress responses in *Arabidopsis*. *Plant Physiol.* 169(1): 780-92.

Rishishwar, R., Mazumdar, B. & Dasgupta, I. (2015). Diverse and recombinant begomoviruses and various satellites are associated with Bhendi yellow vein mosaic disease of okra in India. *Journal of Plant Biochemistry and Biotechnology*. 24: 470-475.

Saeed, B., Baranwal, V.K., & Khurana, P. (2015). Comparative transcriptomics and comprehensive marker resource development in mulberry. *BMC Genomics*. 1-14.

Sangwan, N., Lambert, C., Sharma, A., Gupta, V., Khurana, P., Khurana, J.P., Sockett, R.E., Gilbert, J.A. & Lal, R. (2015). Arsenic rich Himalayan hot spring metagenomics reveal genetically novel predator-prey genotypes. *Environ. Microbiol. Reports*. 7: 812-823.

Siddiqui, M.H., Al-Khaishany, M.Y., Al-Qutami, M.A., Alwahaibi, M.H., Grover, A., Ali, H.M., Alwahaibi, M.S. & Bukhari, N.A. (2015). Response of different genotypes of faba bean plants to drought stress. *International J. Molecular Sciences*. 16: 10214-10227.

Singh, A., Pandey, A., Srivastava, A.K., Phan Tran, L-S. & Pandey, G.K. (2015). Plant protein phosphatases 2C: from genomic diversity to functional multiplicity and importance in stress management. *Crit Rev Biotechnol*. 18:1-13.

Sharma, A., Sangwan, N., Negi, V., Kohli, P., Khurana, J.P., Rao, D.L.N. & Lal, R. (2015). Pan-genome dynamics of *Pseudomonas* gene complements enriched across hexachlorocyclohexane dumpsite. *BMC Genomics*. 16: 313.

Sharma, G., Giri, J. & Tyagi, A.K. (2015). Rice OsSAP7 negatively regulates ABA stress signaling and imparts sensitivity to water-deficit stress in *Arabidopsis*. *Plant Science*. 237: 80-92.

Sharma, M. & Pandey, G.K. (2015). DUBs: Regulation by Reversible Ubiquitination. *J Mol Biol & Mol Imaging*. 2(1): 1014.

Sinha, S., Raxwal, V.K., Joshi, B., Jagannath, A., Katiyar-Agarwal, S., Goel, S., Kumar, A. & Agarwal, M. (2015). De novo transcriptome profiling of cold-stressed siliques during pod filling stages in Indian mustard (*Brassica juncea* L.). *Front. Plant Sci.* 6: 932.

Sree, K.S., Maheshwari, S.C., Boka, K., Khurana, J.P., Keresztes, A. & Appenroth, K-J. (2015). The duckweed *Wolffia microscopica*: a unique aquatic monocot. *Flora*. 210: 31-39.

Tiwari, K.K., Singh, A., Pattnaik, S.S., Sandhu, M.M., Kaur, S., Jain, S., Tiwari, S., Mehrotra, S., Anumalla, M., Samal, R. Bhardwaj, J., Dubey, N., Sahu, V., Kharshing, G.A., Zeliang, P.K., Srinivasan, K., Kumar, P., Parida, S.K., Mithra, S.V.A., Rai, V., Tyagi, W., Agarwal, P.K., Rao, A.R., Pattanayak, A., Chandel, G., Singh, A.K., Bisht, I.S., Bhat, K.V., Rao, G.J.N., Khurana, J.P., Singh, N.K. & Mohapatra, T. (2015). Identification of a mini-core set from Indian rice germplasm collection. *Plant Breeding* DOI: 10.1111/pbr.12252.

- Tiwari, L.D., Mishra, R.C., Mittal, D. & Grover, A. (2015). Constitutive over-expression of rice chymotrypsin protease inhibitor gene OCPI2 results in enhanced growth and osmotic stress tolerance of the transgenic Arabidopsis plants. *Plant Physiology and Biochemistry*. 92: 48-55
- Yadav, A.K., Shankar. A., Jha. S.K., Kanwar. P., Pandey, A. & Pandey, G.K. (2015). A rice tonoplast calcium exchanger, OsCCX2 mediates Ca<sup>2+</sup>/cation transport in yeast. *Scientific Reports*. 26 (5):17117
- Agarwal, P., Parida, S.K., Raguvanshi, S., Kapoor, S., Khurana, P., Khurana J.P. & Tyagi, A.K. (2016). Rice improvement through genome-based functional analysis and molecular breeding in India. *RICE*. 9: 1 (DOI 10.1186/s12284-015-0073-2).
- Arya, D., Kapoor, S., & Kapoor, M. (2016). *Physcomitrella patens* DNA methyltransferase 2 is required for recovery from salt and osmotic stress. *FEBS Journal*. 283: 556–570.
- Baranwal, V.K. & Khurana, P. (2016). Genome-wide analysis, expression dynamics and varietal comparison of NAC gene family at various developmental stages in *Morus notabilis*. *Molecular Genetics & Genomics* DOI:10.1007/s00438-016-1186-z
- Jha, S.K., Sharma, M. & Pandey, G.K. (2016). Role of Cyclic Nucleotide Gated Channels in Stress Management in Plants. *Current Genomics*. 17(4)
- Kelkar, V., Kushawaha, A.K. & Dasgupta, I. (2016). Identification of amino acid residues of the coat protein of Sri Lankan cassava mosaic virus affecting symptom production and viral titer in *Nicotiana benthamiana*. *Virus Research*. 217: 38-46.
- Lu, G.H., Pandey, G.K., Yang, Y.H. (2016). The LIKE SEX FOUR2 regulates root development by modulating reactive oxygen species homeostasis in *Arabidopsis* *Sci Rep*. 28(6):28683. doi: 10.1038/srep28683.
- Mishra, R.C. & Grover, A. (2016). ClpB/Hsp100 proteins and heat stress tolerance in plants. *Critical Reviews in Biotechnology*. 36: 862-874.
- Mishra, R.C., Richa, A. Singh & Grover, A. (2016). Characterization of 5'UTR of rice ClpB-C/Hsp100 gene: evidence of its involvement in post-transcriptional regulation. *Cell Stress Chaperone*. (DOI 10.1007/s12192/015/0657/1).
- Pandey, G.K., Pandey, A., Prasad, M. & Böhmer, M. (2016). Abiotic Stress Signaling in Plants: Functional Genomic Intervention. *Front Plant Sci*. 2016 May 20;7:681. doi: 10.3389/fpls.2016.00681. eCollection 2016.
- Pandey, A., Sharma, M. & Pandey, G.K. (2016). Emerging Roles of Strigolactones in Plant Responses to Stress and Development. *Front Plant Sci*. 2016 Apr 5;7:434. doi: 10.3389/fpls.2016.00434.
- Sharma, M. & Pandey, G.K. (2016). Expansion and Function of Repeat Domain Proteins during Stress and Development in Plants. *Front Plant Sci*. 11(6):121
- Singh, A., Saraf, S., Dasgupta, I. & Mukherjee, S.K. (2016). Identification and validation of a virus-inducible tasi-RNA-generating TAS4 locus in tomato. *Journal of Biosciences*. 41: 109-118.
- Valarmathi, P., Kumar, G., Robin, S., Manonmani, S., Dasgupta, I. and Rabindran, R. (2016) Evaluation of virus resistance and agronomic performance of rice cultivar ASD 16 after transfer of transgene against *Rice tungro bacilliform virus* by backcross breeding. *Virus Genes* DOI: 10.1007/s11262-016-1318-x.
- Zhao, P., Sokolov, L.N., Ye, J., Tang, C.Y., Shi, J., Zhen, Y., Lan, W., Hong, Z., Qi, J., Lu, G.H., Pandey, G.K., & Yang, Y.H. (2016). The LIKE SEX FOUR2 regulates root development by modulating reactive oxygen species homeostasis in *Arabidopsis*. *Sci Rep*. 28(6):28683. doi: 10.1038/srep28683.

## Research Projects

Prof. Sanjay Kapoor, DBT-NOW, 2015-19 Sub-project IV: Characterization of Gene Regulatory Networks and Transcriptional Mechanisms that Control Male Gametophyte, under National Rice Functional Genomics Consortium Project entitled “Development in Rice Functional Characterization of Genetic and Epigenetic Regulatory Networks Involved in the Reproductive Development in Rice”.

Prof. Girdhar K. Pandey, DBT, 2015-17 entitled “Functional characterization of Arabidopsis CCX 1 and 2 (Ca<sup>2+</sup> Cation exchangers) under abiotic stress conditions”, 48.79 lakhs.

Prof. Girdhar K. Pandey, DBT, 2015-17 entitled “Functional characterization of rice CCX2 (Ca<sup>2+</sup> cation exchangers) under abiotic stress conditions”, 46.43 lakhs.

Prof. J.P. Khurana, Prof. A.K. Tyagi, Prof. P. Khurana & Prof. A. Grover, DBT, 2015-18 entitled “Centre for Advance Research and Innovation on Plant Stress and Developmental Biology” CPMB Phase IV, 367.085 lakhs.

Prof. J.P. Khurana & Prof. P. Khurana, DBT 2010-2016 entitled “Physical mapping and sample sequencing of wheat chromosome 2A – International Wheat Genome Sequencing Consortium”. 751.46 lakhs.

Prof. I. Dasgupta, DBT under NE Twinning Programme, 2012-2016, entitled “Functional dissection of geminiviral promoters for developing heterologous gene expression systems” Rs. 28.80 Lakhs.

Prof. S. Kapoor & Prof. A. Grover, DBT under BIPP, 2012-2017, entitled Generation of transgenic virus resistance in okra using RNA interference” Rs. 100.00 Lakhs

## Conferences Organized

Organized UGC-SAP Workshop on “Recent Advances in Molecular Biology and Biotechnology” on March 2, 2016, at South Campus of Delhi University.

Prof. J.P. Khurana organized and participated in INSA-TWAS sponsored plenary lectures on the occasion of National Science Day, on February 29, 2016, at University of Delhi South Campus, New Delhi.

## Conference Presentations

The faculty members delivered several invited talks in universities India and abroad.

Professor J. P. Khurana

Delivered a lecture in the Department of Biotechnology, Indian Institute of Technology, Kharagpur, in April 2015.

Delivered a Plenary lecture and attended the National Symposium organized by the Indian Society of Plant Biochemistry and Biotechnology, at NARC Complex, New Delhi, from August 9-11, 2015.

Delivered a Keynote Lecture during the Next Gen Genomics, Biology and Bioinformatics Technologies (NGBT) conference, held at Hyderabad in October 2015.

Delivered invited lecture (as Guest of Honor) on the occasion of CSIR-NBRI Foundation Day at NBRI, Lucknow, on October 25, 2015.

Delivered an invited lecture in the Workshop organized jointly by the Maharashtra Academy of Sciences & CSIR-NCL, Pune, on 29<sup>th</sup> October 2015.

Delivered a lecture to the High School students during the Children Science Congress held at KIIT, Bhubaneswar, as part of the Annual Session of the National Academy of Sciences, India (NASI) on December 8, 2015.

Delivered a Plenary Lecture in the International Plant Physiology Congress (IPPC 2015), held at JNU, New Delhi, from December 11-14, 2015.

Delivered an invited lecture in a Symposium to Celebrate International Year of Light 2015, organized by INSA during its Anniversary General Meeting at IISER, Bhopal, from December 28-30, 2015.

Delivered a lecture at the Institute of Life Science, Banaras Hindu University, Varanasi, in February 2016.

Attended Global Biotechnology Summit 2016 “Celebrating Biotechnology: “Destination India”, organized by the DBT at Vigyan Bhawan, New Delhi, on February 5-6, 2016.

Delivered invited lectures in a Teacher’s Training Workshop organized by the Central University of Panjab, Bhatinda, on February 13-14, 2016.

Delivered Dr. B.P. Pal Memorial Award lecture at Deen Dayal Upadhyay College, University of Delhi, on February 17, 2016.

Professor Paramjit Khurana

‘Guest of Honor’ and presentation on “The art of scientific presentations” at DST-NASI Workshop for Sensitization of Women regarding S&T Fellowships and Internships at Jiwaji Univ, Gwalior, on May 22, 2015.

Presentation on “Climate Change and Plants” in the special workshop organized by NASI at Dehradun for the ITB Police force, Uttarakhand on July 4, 2015.

Presentation on “Proposal Writing and Graftsmanship” during the International Training Program on Leadership and Career Development for Woman Scientist & Technologists organized at the Indian Institute of Entrepreneurship, Guwahati, by DST, IUSSTF and COACH, from September 2-6, 2015.

Presentation on “The Art of Scientific Presentations: at Savitribhai Phule Univ, Pune, in the National workshop organized by NASI on “Sensitization and Technological empowerment of Women teachers/researchers/scientists for their S & T endeavours, on September 25, 2015.

Plenary lecture on “Jigyasa: a genomic insight into mulberry research” at JIGYASA-2015, on “Translating MAPs Research for Mankind”, CIMAP, November 28-29, 2015.

Plenary lecture on “Role of mulberry transcriptomics for crop improvement and product diversification” at the 2<sup>nd</sup> Convention: SFE-India, 2015, organized by the School of Natural Product Studies in association with Society of Ethanopharmacology (SFE-India) at Jadavpur University, Kolkata, on December 5, 2015.

Inaugural Lecture at Maitreyi College, on “An Introduction to Plant Tissue Culture; techniques and technologies” Special workshop on “In Vitro: Techniques to Technologies” under the Star Status conferred by DBT, at New Delhi on December 15, 2015.

Plenary lecture on “Role of mulberry transcriptomics for crop improvement and product diversification” at the 2<sup>nd</sup> Convention: SFE-India, 2015, organized by the School of Natural Product Studies in association with Society of Ethanopharmacology (SFE-India) at Jadavpur University, Kolkata, on December 5, 2015.

Lead Speaker on “Functional Genomics of Thermal Tolerance in Wheat” at the 3<sup>rd</sup> International Plant Physiology Congress on “Challenges and Strategies in Plant Biology Research, organized by the Indian Society of Plant Physiology at JNU from December 11-14, 2015.

Lecture on “Skill of Scientific Paper Writing and Presentation” as an Invited Speaker in the Brain Storming Session on “The art of scientific paper writing and presentation” during the 10<sup>th</sup> USSTC 2015-16 on February 10, 2016, at Dehradun.

“The Art of Scientific writing and Presentation” at the National workshop on “Scientific/research paper Writing” at Sant Gadge Baba Amravati University, Amravati, organized by The National Academy of Sciences, India, from March 04-05, 2016.

“Gender Sensitization: Changing the Mindset” at the National Workshop on “Sensitization Workshop on technological empowerment of Women” at Banasthali University, organized by The National Academy of Sciences, India, from March 14-15, 2016.

“World of Biotechnology” at the Developing Countries Research Centre, University of Delhi, on July 13, 2016.

Plenary lecture on “Role of mulberry transcriptomics for crop improvement and product diversification” at the 2nd Convention: SFE-India, 2015, organized by the School of Natural Product Studies in association with Society of Ethanopharmacology (SFE-India) at Jadavpur University, Kolkata, on December 5, 2015.

Professor Anil Grover

Delivered a talk on ‘Heat & Rice Plants’ at Biosparks, JNU, New Delhi (March 19, 2016).

Delivered a talk on ‘Heat stress biology and rice plants’ at South Asian University, New Delhi (February 26, 2016).

Delivered a talk on ‘Future agriculture: stress tolerant transgenic plants’ at Hans Raj College, Delhi University, New Delhi (February 15, 2016).

Delivered a talk on ‘Effects of heat stress on rice plants’ at NRCPB, IARI Campus, New Delhi (February 03, 2016)

Talk on ‘Elucidation of the molecular machinery components associated with adaptation of rice plants to heat stress’ at Indian Plant Physiology Congress, JNU, New Delhi (December 11, 2015).

Talk on ‘Rice cultivation & heat stress at ICGEB, New Delhi (Nov 20, 2015).

Delivered a talk on ‘Future agriculture: stress tolerant transgenic crops: raising of abiotic stress tolerant transgenic crops’ at Navy School, New Delhi (May 05, 2015).

Delivered a talk on ‘Molecular biology of high temperature stressed rice seedlings’ at Shaheed Rajguru College of Applied Sciences for Women, Delhi University, Delhi (March 03, 2015).

Delivered a talk on ‘Raising of abiotic stress tolerant transgenic crops’ at DAV College, Jalandhar, Punjab (February 28, 2015).

Dr. Surekha Katiyar-Agarwal

Delivered lecture on ‘Tetraspanin family of proteins: new regulators of development and abiotic stress response in rice’ at ‘3rd International Plant Physiology Congress’ organized by Indian Society of Plant Physiology at JNU, New Delhi from December 11-14, 2015.

Delivered lecture on ‘Endogenous small RNAs: Tiny regulators of abiotic and biotic stress responses in plants’ at ‘Theoretical and Practical course on MicroRNAs in Plant Development and Stress’ organized by ICGEB, New Delhi, India from November 16-27, 2015.

### **Inter-Institutional Collaboration**

Physical mapping and sample sequencing of wheat chromosome 2A – International Wheat Genome Sequencing Consortium (India). (2010-2016) in Collaboration with Prof. R.K. Singh & Prof. T.R. Sharma, Indian Agricultural Research Institute, New Delhi and Prof. Kuldeep Singh, Punjab Agricultural University, Ludhiana

Functional dissection of Gemini virus promoters for developing heterologous gene expression systems. (2012-2016) in Collaboration with Dr. Basanta Kumar Borah, Assam Agricultural University, Jorhat under the Twinning program with NE region.

Indo-Dutch Collaborative Project on: Characterization of Molecular Components Involved in Pollen Abortion during High Temperature Stress

#### **M.Phil./ Ph.D. degrees awarded**

Ph.D. Awarded: 11

**Faculty Strength:** Permanent: 11

#### **Other significant information**

Organized UGC-SAP Workshop on “Recent Advances in Molecular Biology and Biotechnology” on March 2, 2016, at South Campus of Delhi University.

Prof. Dasgupta availed of a Visiting Professorship to Northwest A&F University, Yangling, Shaanxi, P. R. China for two weeks and an academic visit to Martin Luther University, Halle-Wittenberg, Germany for four weeks under the Erasmus Mundus Mobility Programme to foster future scientific collaboration.

## **FACULTY OF TECHNOLOGY**

### **INSTRUMENTATION AND CONTROL ENGINEERING**

#### **Major Activities and Achievements**

Awarded the best paper in International Conference, IEEE INDICON-2015, entitled “Comparison of ANN and ANFIS based MPPT controller for grid connected PV Systems” by Perna Gaur and Ankita Arora during December 17-20, 2015.

The prestigious IEEE All India Computer Society Student YP Congress 2015 was held at Netaji Subhas Institute of Technology, New Delhi. AICSSYC '15 is once in a lifetime opportunity for students and professionals to be a part of the colloquium that will provide an impetus to learn and assimilate knowledge from various informative sessions as well as interact and participate in different brainstorming events for mutual collaboration. The three-day event aimed to provide everything at once: Informative lectures by inspiring IEEE and IEEE CS leaders, industrial and professional erudites, elucidations on various dimensions of IEEE and CS, and its host of functionalities, industry visits, and discussions for the better analysis and working of teams, fun events full of frenzy and entertainment.

Outstanding Branch Counselor Award from IEEE Delhi Section-2016 to Dr. Perna Gaur, Associate Professor.

#### **Publications**

A total of 40 research papers was published in journals of International repute during 2015-2016 by the faculty of the department.



- Agarwal, S., Rani, A., Sing, V., & Mittal, A.P. (2016). Performance evaluation and FPGA based implementation of SGSF in smart diagnostic applications. *Journal of Medical Systems*, 40(3). DOI: 10.1007/s10916-015-0404-2.
- Arora, P., Bareja, S., Arora, K., & Srivastava, S. (2015). Improved gait recognition using Gradient Histogram Gaussian Image. *Procedia Computer Science*, 58, 408-413.
- Arora, P., Hanmandlu, M., & Srivastava, S. (2015). Gait based authentication using gait information image features. *Pattern Recognition Letters*, 68, 336-342.
- Arora, P., Srivastava, S., Singhal, S. (2015). Analysis of gait flow image and gait gaussian image using extension neural network for gait recognition. *International journal of rough sets and data analysis*, 3(2), 45-64.
- Bajjal, S., Singh, S., Rani, A., & Agarwal, A. (2015). Performance Evaluation of S-Golay and MA Filter on the Basis of White and Flicker Noise. *Advances in intelligent systems and computing*, 425, 245-255.
- Gaidhane, V. H., Hote, Y. V., Singh, V. (2016). Image focus measure based on polynomial coefficients and spectral radius. *Signal, Image and Video Processing*. DOI 10.1007/s11760-015-0775-3.
- Garg, G., & Singh, V. (2016). Selection of wavelet features for biomedical signals using SVM learning, intelligent techniques for data analysis in diverse settings. *Intelligent Techniques for Data Analysis in Diverse Settings*, 306-315. DOI: 10.4018/978-1-5225-0075-9.ch015.
- Garg, G., & Singh, V. (2016). Unified wavelet transform analysis adapted to different biomedical applications. *Intelligent Techniques for Data Analysis in Diverse Settings*, 1- 21.
- Gopal, Srivastava, S., Bhardwaj, S., & Bhargava, S. (2016). Fusion of palm-phalanges print with palm print and dorsal hand vein. *Journal of Applied Soft Computing*. DOI: 10.1016/j.asoc.2016.05.039.
- Hote, Y. V. (2015). New approach of Gerschgorin theorem in model order reduction. *International Journal of Modelling and Simulation*, 35(3-4), 143-149.
- Jha, S. K. (2015). Transforming engineering education exploiting inveterate symbiosis between science and spirituality. *Journal of Engineering Education Transformation*, 29(2), 25-30.
- Jha, S. K. (2016). Implication of different facets of entrepreneurship: what india can contribute to the world? *Journal of Advances in Economics and Business Management*, 3(5), 554-559.
- Jha, S. K. (2016) Rote learning: A transcendental bridge between science and spirituality. *Journal of Engineering Education Transformation*, 29(3), 143-149.
- kumar, V., Gaur, P., & Mittal, A.P. (2015). Novel AI based on-line sequential learning technique for high performance dc servo motor control. *Journal of Control Engineering and Applied informatics, Inderscience*, 17. DOI: 10.1504/IJCAD.2013.057458.
- Kumar, V., Gaur, P., & Mittal, A.P. (2016). Predictive torque and flux control of an induction machine drive using fuzzy multi-criteria decision making. *Sadhna, Accepted*. SADH-D-15-00116R1.

Pachauri, N., Rani, A., & Singh, V. (2016). GA tuned 2DOFPID based Biomass Concentration Control of Bioreactor. *Advances in Intelligent Systems and Computing*, 479, 879-885.

Sharma, R., Gaur, P., & Mittal, A.P. (2015). Performance analysis of two-degree of freedom fractional order PID controllers for robotic manipulator with payload. *ISA Transactions, ELSVIER*, 58, 279–291.

Sharma, R., Kumar, V., Gaur, P., & Mittal, A.P. (2016). An adaptive PID like controller using mix locally recurrent neural network for robotic manipulator with variable payload. *ISA Transactions, ELSVIER*. DOI:10.1016/j.isatra.2016.01.016.

Tushir, M., Srivastava, S. (2016). Exploring different kernel functions for kernel based clustering. *International of Artificial Intelligence and Soft Computing*, in press.

Yadav, A. K., & Gaur, P. (2015). Intelligent modified internal model control for speed control of nonlinear uncertain heavy duty vehicles. *ISA Transactions, ELSVIER*, 56, 288–298.

Yadav, A. K., & Gaur, P. (2016). An optimized and improved STF-PID speed control of throttle controlled HEV. *Arabian Journal for Science and Engineering, Accepted*.

Yadav, A. K., Gaur, P., & Saxena, P. (2016). Robust stability analysis of PMSM with parametric uncertainty using kharitonov theorem. *Journal of Electrical Systems, ISI Thomson Reuters, Accepted*.

Yadav, J., Rani, A., Singh, V., & Murari, B. M. (2015). Comparative study of different measurement sites using NIR based non-invasive glucose measurement system. *Procedia Computer Science*, 70, 469 – 475.

Yadav, J., Rani, A., Singh, V., & Murari, B. M. (2015). Prospects and limitations of non-invasive blood glucose monitoring using near-infrared spectroscopy. *Biomedical Signal Processing and Control, Elsevier Science*, 18, 214-227.

Yadav, J., Rani, A., Singh, V., & Murari, B. M. (2015). Prospects and limitation of non-invasive blood glucose monitoring using near-infrared spectroscopy. *Biomedical Signal Processing and Control*, 18C, 214-227.

### **Conferences Organized**

Lecture by Dr. Bhim Singh from IIT Delhi was held at the ICE division of NSIT in September, 2015.

Lecture by Dr. Bhim Singh from IIT Delhi was held at the ICE division of NSIT in November, 2015.

Lecture by Mr. Sandeep Mann was held at the ICE division of NSIT in April, 2016.

Organized a “Special Session on Artificial intelligence” in INDIACOM -2016 in BVCOE during March 16-20, 2016.

### **Faculty Strength**

Permanent 18

## **MECHANICAL ENGINEERING**

### **Major Activities and Achievements**

Department offers B.E. (MPAE), B.E. (Mechanical Engg.) and Ph.D. programme. Several faculty members are associated with professional societies and grant agencies. Few faculty members have been on Advisory committee of Special Assistance Programme of UGC of different universities; and experts on several committees of UGC and DST.

## Publications

Following research papers were published during 2015-2016 by the faculties of the Department.

Kumar, A., Maheshwari, S., & Sharma, S.K. (2015). Optimization of vickers hardness and impact strength of silica based fluxes for submerged arc welding by taguchi method. *Elsevier Materials Today*, 2(4), 1092-1101.

Srivastava, M., Maheshwari, S., & Kundra, T.K. (2015). Virtual modelling and simulation of functionally graded material component using FDM technique. *Elsevier Materials Today*, 2(4), 3471 -3480.

Singh, B., Khan, Z.A., Siddiquee, A. N., & Maheshwari, S. (2016). Effect of CaF<sub>2</sub>, FeMn and NiO additions on impact strength and hardness in submerged arc welding using developed agglomerated fluxes. *Journal of Alloys and Compounds*, 667, 158–169.

Srivastava, M., Maheshwari, S., Kundra, T. K., Yashaswi, R., & Rathee, S. (2016). Integration of fuzzy logic with response surface methodology for predicting the effect of process parameters on build time and model material volume in FDM process. In D. K. Mandal & C. S. Syan (Eds.), *CAD/CAM, Robotics and factories of the future, lecture notes in mechanical engineering* (pp. 195-206). New Delhi, India: Springer India.

Srivastava, M., Maheshwari, S., Kundra, T.K., Rathee, S., & Yashaswi, R. (2016). Experimental investigation of process parameters for build time estimation in FDM process using RSM technique. In D. K. Mandal & C. S. Syan (Eds.), *CAD/CAM, Robotics and factories of the future, lecture notes in mechanical engineering* (pp.229-241). New Delhi, India: Springer India.

Singla, R., Parthasarathy, H., Agarwal, V., & Rana, R. (2016). Feedback optimization problem for master–slave teleoperation tracking in the presence of random noise in dynamics and feedback. *Nonlinear Dynamics*, 86(1), 559-586.

Chak, S.K. (2015). Electrochemical discharge machining-discharge generation: A review. *Journal of Material Science and Mechanical Engineering*, 2(10), 49-53.

Chak, S.K. (2016). Spark-assisted electrochemical drilling of ceramics. *International Journal of Precision Technology*, 6(2), 171-189.

Chak, S.K. (2016). Electro chemical discharge machining: Process capabilities. *International Conference on Mechanical and Production Engineering*.

Vani, V.V., & Chak, S.K. (2016). A review on electro chemical discharge machining of Al based MMC. *International Conference on Mechanical and Production Engineering*.

Manjaree, Shiv, Nakra, B.C., & Agarwal, V. (2015). Comparative analysis for kinematics of 5-DOF industrial robotic manipulator. *Actamechanica Et Automatica*, 9(4), 229-240.

Bajpai, Kumar, P., Debnath, K., & Singh, I. (2015). Hole making in natural fiber-reinforced polylactic acid laminates: An experimental investigation. *Journal of Thermoplastic Composite Materials*. DOI: 10.1177/0892705715575094.

Bajpai, P.K. (2016). Green composite materials based on biodegradable polyesters. In S. Kalia (ed.), *Biodegradable Green Composites* (chapter 9). Hoboken, NJ: John Wiley & Sons, Inc.,

Soni & Umang (2016). Supply chain vulnerability: Empirical analysis. *International conference, EBSCC- 2016, IIT Kharagpur*.

Chaudhary, V., Bajpai, P.K., & Maheshwari, S. (2015). Mechanical characterization of bio-composites: A review. *International Journal of Applied Engineering Research*, 10(78).

Chaudhary, V., Rajput, A., & Bajpai, P.K. (2016). Effect of particulate filler on mechanical properties of polyester based composites. *Materials Today: Proceedings*.

Tevatia, A., & Srivastava, S.K. (2016). Influence of residual thermal stresses on fatigue crack growth life of discontinuous reinforced metal matrix composites. *Fatigue and Fracture of Engineering Materials and Structures*. DOI: 10.1111/ffe.12477.

Tevatia, A., & Srivastava, S.K. (2015). Modified shear lag theory based fatigue crack growth life prediction model for short-fibre reinforced metal matrix composites. *International Journal of Fatigue*, 70, 123-129.

Tevatia, A., & Srivastava, S.K. (2016). Micromechanical investigation of fatigue crack growth life of discontinuous reinforced metal matrix composites. *International Conference on Recent Trends in Engineering and Materials Science, Jaipur National University*.

Tevatia, A., & Srivastava, S. K. (2015). Fatigue crack growth life prediction model for discontinuous reinforced metal matrix composites under large scale yielding. *National Conference on Product Design and Manufacturing Proceedings, Motilal Nehru National Institute of Technology Allahabad*.

Tevatia, A., & Srivastava, S. K. (2015). Fracture mechanics based fatigue crack growth models for metallic structures: A review. *FME-2015 Proceedings, MMMUT, Gorakhpur*.

Jain, R., Bhagat, S., Pandey, T., Gadre, D.V., & Khanna, P. (2015). Design and development of a dual channel temperature acquisition system to log temperature distribution in base plates during different welding operations. *International Journal of Emerging Technology and Advanced Engineering*, 5(8), 158-162.

Verma, A., Anjali, Khanna, P., & Gupta, S. (2015). Graphical analysis of a vibratory bowl feeder using channel shaped sheet metal components. *International Journal of Applied Engineering and Research*, 10(78), 69-73.

Khanna, P., & Maheshwari, S. (2016). Effects of wire feed rate, voltage and nozzle to plate distance on welding current in a MIG welding process. *Proceedings of the Vth International Symposium on Fusion of Science and Technology, New Delhi*, 305-310.

Raj, S., Gupta, S., & Verma, A., & Khanna, P. (2016). Development of a magnetic belt type feeder and graphical analysis of feed rate of tubular components. *Proceedings of the Vth International Symposium on Fusion of Science and Technology, New Delhi*, 325-332.

Gupta, S., Khanna, P., & Gupta, S. (2016). Design and development of an automated industrial component sorting system with digital image processing. *Proceedings of the Vth International Symposium on Fusion of Science and Technology, New Delhi*, 339-345.

Raj, S., Gupta, S., & Khanna, P. (2016). Development of a magnetic belt type feeder and mathematical analysis of feed rate of tubular components. *International Journal of Computer and Mathematical Sciences*, 5(1), 64-72.

Pandey, P., Varshneya, K., & Khanna, P. (2016). Elevated step feeder design, fabrication and study of effects of operating parameters on its performance. *International Journal of Engineering Technology, Management and Applied Sciences*, 4(1), 89-93.

Anjali, Verma, A., & Khanna, P. (2016). Mathematical analysis of channel shaped components feeding in a vibratory bowl feeder. *International Journal of electronics, Electrical and computational Systems*, 5(2), 124-133.

Khatri, A., Sethi, M., & Khanna, P. (2016). Development of a flexible elevated gravimetric part feeding system with performance analysis. *International Journal of Innovative Research in Science and Engineering*, 2(7), 123-128.

### **Conference Presentations**

Mr. Abhishek Tevatia

Presented paper in “International Conference on Recent Trends in Engineering and Materials Science ICEMS-2016” organized at Jaipur National University during March 17-19, 2016.

Presented paper in “National Conference on Product Design and Manufacturing Proc.” organized at Department of Mechanical Engineering, Motilal Nehru National Institute of Technology Allahabad during November 21-22, 2015.

Presented paper at “FME-2015 Proc.” Organized at MMMUT, Gorakhpur during November 06-07, 2015.

Dr. Umang Soni presented paper in “International Conference on E-business and Supply Chain Competitiveness (EBSCCC) 2016” organized at IIT Kharagpur during February 12-14, 2016.

Dr. Sanjay Chak presented paper, entitled “Electro chemical discharge machining: Process capabilities” in International Conference on Mechanical and Production Engineering (ICMPE) held on August 21, 2016.

**Faculty Strength:** Permanent: 15

## **ELECTRONICS AND COMMUNICATION ENGINEERING**

### **Major Activities and Achievements**

The department offers B.E. program in Electronics and Communication Engineering (ECE) with an intake of 190 students per year and M. Tech. program in Signal Processing with an intake of 23 students per year. In addition, it offers Ph.D. program in allied areas of ECE. Apart from teaching, the faculty members and the students have been vigorously pursuing research. Department has various UG/PG and research laboratories which are equipped with state-of-the-art equipments and advanced softwares. Department has two centers namely Centre of Electronics Design and Technology (CEDT) and Texas Instruments Centre for Embedded Product and Design (TI-CEPD). ECE department Organizes Summer/Winter Internship Programme on Microcontroller based Embedded System Design under TI-CEPD, NSIT Delhi.

### **Publications**

Aggarwal, A., Rawat, T. K., & Upadhyay, D. K.(2016) Design of optimal digital FIR filters using evolutionary and swarm optimization techniques. *AEUE: International Journal of Electronics and Communications*. DOI: 10.1016/j.aeue.2015.12.012.

Aggarwal, B., Gupta, M., & Gupta, A. K. (2016). A comparative study of various current mirror configurations: Topologies and characteristics, *Microelectronics Journal*, 53, 134-155.

Aggarwal, M., Garg, P., & Puri, P. (2015). Exact MGF based performance analysis of dual-hop AF relayed optical wireless communication systems. *IEEE/OSA Journal of Lightwave Technology*, 33(9), 1913-1919.

Bhaskar, D. R., & Senani, R. (2015). synthetic floating inductors realized with only two current feedback op-amps. *American Journal of Electrical and Electronic Engineering*, 3(4), 88-92.

Gautam, K., Rawat, T. K., Parthasarathy, H. & Sharma, N. (2015). Realization of quantum gates based on three-dimensional harmonic oscillator in a time-varying electromagnetic field. *Quantum Information Processing*, 14(7). DOI: 10.1007/s11128-015-1061-6.

Gautam, K., Rawat, T. K., Parthasarathy, H., & Sharma, N. (2015). Realization of commonly used quantum gates using perturbed harmonic oscillator. *Quantum Information Processing*, 14(7). DOI: 10.1007/s11128-015-1059-0.

Kumar, M., & Rawat, T. K. (2015). Optimal fractional delay-IIR filter design using cuckoo search algorithm. *ISA Transactions*, 59, 39-54. DOI: 10.1016/j.isatra.2015.08.007.

Pathak, J. K., Singh, A. K., & Senani, R. (2015). New Canonical lossy inductor using a single CDDBA and its applications. *International Journal of Electronics*. DOI:10.1080/00207217.2015.1020884.

Rai, S. K., & Gupta, M. (2016). Performance enhancement of current differencing transconductance amplifier (CDTA) by using a new approach of gm boosting and its application. *Optik-International Journal for Light and Electron Optics*, 127(15), 6103-6144.

Sharma, P. K., Bansal, A., & Garg, P. (2015). Relay assisted bi-directional communication in generalized turbulence fading. *IEEE/OSA Journal of Lightwave Technology*, 33(1), 133-139.

### **Conferences Organized**

Organized Summer/Winter Internship Programme on “Microcontroller Based Embedded System Design” under TI Centre for Embedded Product Design held at NSIT, Delhi.

**Faculty Strength:** Permanent: 15; Temporary: 13

## **PRODUCTION & INDUSTRIAL ENGINEERING**

### **Major Activities and Achievements**

The Department of Mechanical Engineering continues to play a highly important role by producing Graduates and Post Graduates of high quality, retaining its edge in campus placements in industries of high repute and in international design competitions on the strength of its innovative product development through inter-disciplinary teams of its students mentored by qualified faculty. Focus on Production Sciences and their importance in Production Engineering System Analysis., Focus on Design and Analysis including CAD, CFD and Professional Software Usage., Knowledge of Latest Manufacturing Technologies and New Materials., Self Study (Open Area Seminars in Specialized and Allied Fields), Major and Minor Projects., Industrial Training. Most of the Students graduated from the department got placed in industries of high repute through campus placement. Some went for higher studies in Universities of repute in India and abroad. Such as: Stanford, University of Michigan, Oxford, IIMs and FMS etc.

### **Honours/ Distinctions**

Dr. R. S. Mishra was Guest of Honour in

Session I: 27th Feb. 2016 International Conference of Advance Research and Innovations at Institutions of Engineers (India) Delhi State Centre (Engineer Bhavan) 2, Bahadur Shah Zafar Marg New Delhi.

Technical Session IV: Innovations, Management Strategies for skill Development and Entrepreneurship on 28th Feb 2016 .National Conference on Skill India Initiative: Challenges, Opportunities and Strategies 27th & 28th Feb 2016,

organized by S.D. College of Engineering & Technology and S.D.College of Management Studies Muzaffarnagar (UP).

Session VI: Environment concerns & Role of technical Institutions& Skill India and Valedictory Function on 28thFeb 2016 National Conference on Skill India Initiative: Challenges, Opportunities and Strategies 27th & 28th Feb 2016 , organized by S.D. College of Engineering & Technology and S.D.College of Management Studies Muzaffarnagar (U.P.).

Keynote speaker and Chairman (First session), International conferences on advances in science, Engineering and Technology, 30th Jan 2016 at Haridwar and also delivered plenary lecture on thermodynamic (Energy-Exergy) analysis of solar power cooling combine generation systems.

### **Publications**

Arulmoni, V. J., Mishra, R. S., & Ranganath M. S. (2015). Material flow and microstructural studies in friction stir welding / processing of aluminium: A literature review. *International journal of Advance Research and Innovation*, 3(2), 500-511.

Arulmoni, V. J., Ranganath, M. S., Mishra, R. S. (2015). Effect of single and multiple-pass friction stir processing on microstructure, hardness and tensile properties of a 99.99% Cu with carbon nano tubes. *International journal of Advance Research and Innovation*, 3(3), 189-196.

Arulmoni, V. J., Ranganath, M. S., & Mishra, R. S. (2015). Friction stir processed copper: A review. *International Research Journal of Sustainable Science & Engineering*, 3(8).

Gaur, S. K., & Mishra, R. S. (2015). Thermal Evaporation and microstructure study of CdTe. *International journal of Advance Research and Innovation*, 3(2), 440-445.

Gaur, S. K., & Mishra, R. S. (2016). Modeling and microstructure study of thermally evaporated nanofilm thickness of gold. *International Journal of Advance Research and Innovations*, 4(1), 61-67.

Ranganath, M. S, Vipin, R. S., Mishra, Prateek, & Nikhil. (2015). Optimization of surface roughness in CNC turning of aluminium 6061 using taguchi techniques. *International Journal of Modern Engineering Research*, 5(5), 42-50.

Yuvraj, N., Vipin, & Mishra, R. S. (2016). Effect of number of passes on mechanical and wear properties of friction stir processed Al 1050 alloy. *International Journal of Advance Research and Innovations*, 4(1), 71-75.

### **Faculty Strength: Permanent 1**

## **FACULTY OF MUSIC AND FINE ARTS**

### **Major Activities and Achievements**

The year 2015-2016 witnessed all-round progress and development of the Faculty of Music & Fine Arts both on the academic and cultural front. The growing interest of the society for knowledge of music has resulted in increasing demand for the subject and a greater number of students were enrolled for the course. Valuable contributions were made by the teachers and students in various seminars, lecture demonstrations, music concerts organised by the Department and outside. Students excelled in performances and some were also selected to participate in prestigious music conferences while few of them have achieved the honour of becoming graded artistes of All India Radio and

Doordarshan. Smit Tiwari, an alumnus of 2013 has been selected for the prestigious Bismillah Khan Award which is to be conferred upon an upcoming young artist by Central Sangeet Natak Akademi for 2015.

The Department has been surging ahead in research activities as well. For the Ph.D. programme scholars are engaged in technical and scientific studies, critical analyses, in-depth study of practical aspects, comparative and aesthetic study, etc. Our educational programme has attracted students not only from India but even from various parts of the world. In order to enhance teaching and research activities University Grants Commission has granted Special Assistance Programme (DSA-I).

### **Honours/Distinctions**

Professor Suneera Kasliwal: 'Marwar Ratna Padmashri Komal Kothari Award' for outstanding work done in the Field of Rajasthani music & musical instruments conferred upon by the Meherangarh Museum Trust, Jodhpur for the year 2015.

Professor Deepti Bhalla: 'Sangeeta Nritta Visharada' awarded by the Irayimman Tampi Trust (Royal family of Travancore, Kerala), Nov. 2015. She has also been awarded 'Narada Gana Sabha award', Chennai, Oct. 2015

Professor Prateek Chaudhuri: Honoured by Smt. Shanti Devi Gangani Samman, Delhi 22 Feb 2016.

Professor Omesh Pratap Singh: Honoured by Gaan Ratna award, Sangeet Sabha, Pathankot, 2016.

Dr. Harish Tiwari: Honoured by Gaan Srishti Samman, Kala Srishti, Varanasi, 2016.

Dr. Ajay Kumar: Honoured by Taal Srishti Samman, Kala Shrishti, Varanasi, 2016. He also got appreciation certificate for the best performance in Tabla playing by Pandit Chhote Lal Mishra Sangeet Kala Mahavidyalaya, Motihari, Bihar, 2015.

Dr. Rishitosh was honoured as "ABHINANDAN" by General V. K. Singh, Minister of State for External Affairs on the occasion of Baiju Bavra Geet-Sangeet and Nritya Festival organized by V.N.Bhatkhande Sangeet Mahavidyalay, Ghaziabad, 12<sup>th</sup> Feb. 2016.

### **Publications**

Bhalla, Deepti Omchery. (2015). Editorial. 'Brihaddesi', Swar Bharati, Bharatirya Vidya Bhawan, New Delhi.

Bindu. M.V. (2016), Hindi Bhajans of Swati Tirunal in Hindustani Ragas. Vageeshwari, 29,45-48.

Dey, Ananya Kumar. (2015). Basant Ritu Ragas: Melodic Flavours in the Spring Season. Sangitika, 2(i), 27-30.

Dey, Ananya Kumar. (2015). Malhar Ragas: Celebrating the spirit of the Rainy Season. Naad-Nartan: Journal of Dance and Music, 2(1), 80-85.

Dey, Ananya Kumar. (2015). The Impact of Modern Trends on Hindustani Classical Vocal Music. Vageeshwari, 28, 61-65.

Dey, Ananya Kumar. (2016). Graha: The Initiating element of the ancient Jaati and modern Hindustani Raga. Vageeshwari, 29, 9-15.

Dey, Ananya Kumar. (2016). The Influence of Hindustani Classical Music on Rabindranath Tagore's Musical Compositions. Sangitika, 2(2), 14-20.

Goswami, Hari Kishan. (2015), Bhartiya Sangeet aur Vaishwikaran, Vaageshwari, 28, 66-67.

Goswami, Hari Kishan. (2016). Sangeet Kala Me Guru ki Mahatta, Vaageshwari, 29, 27-28.

Krishan, Gopal. (2015). Hindustani Shastriya Vadan Par Vaihavik Adhnik Pravritiyon Ka Prabhaav. Vaageshwari, 28.



Krishan, Gopal. (2016). Sitarvadan ma Maihar Tatha Itawa Gharane Ka Vadan Shilp Evam Saundaryatamak Dhrishtikon. Vageeshwari, 29, 31-33.

Kumar, Ajay. (2015). The Global Impact of Modern Trends on Indian Drum: Tabla. Vageeshwari, 28, 75-78.

Kumar, Ajay. (2016). Intangible Tabla Compositions of Pandit Anokhe Lal Mishra: Vageeshwari, 29, 34-39.

Kumar, Rishitosh. (2015). "Vaishvik Paripekchya Mai AadhunikTablaSangati" Vageeshwari, 28.

Kumar, Rishitosh. (2016). "Mrindanga k apratimsaadhak:-Pt. RamashishPathak" Vageeshwari, 29, 40-42.

Kumar. Ajay. (2015), Natyashastra. Awandhha Vadya. Sahibabad: Naitik Prakashan.

Manikandan T.V. (2015). Global Impact Of Modern Trends Carnatic Music Education. Vageeshwari, 28. 41-43.

Manikandan T.V. (2015). Sree Krishna Leela Tarangini, Co-author, ISBN-978-93-93-85309-07-6,. Varanasi: Kala Prakashan. 38-42.

Manikandan T.V. (2016), Saint Arunagirinathar and Thiruppugazh. Anhad Lok, ISSN-2349-137 x, Vol-IV, 167-70.

Manikandan T.V. (2016), The Music of Krishnattam. (Second Edition). Varanasi: Manish Publishers.

Prasad, Jagbandhu. (2016). Bhartiya Raagdari Sangeet mein Samaya-siddhant ki Avdharna. Vageeshwari, 29, 16-18.

Singh, Rajpal. (2016). Sangeet Sadhna: Advait ka Sakshatkar. Vageeshwari, 29, 21-22.

Soren, Surendra Nath. (2016). Omkar Ek Roop Anek. Vageeshwari, 29, 23-27.

Thakur, Shalini. (2016). Khayal agayan ke saath saath Thumari tatha Dadra ki Shiksha lena avom uski prastuti dena sangeet sadhakon avom kalakaron ke samne ek chunauti. Vageeshwari, 29, 19-20.

Tiwari, Harish. (2015). Hindustani Shashtriya Gayan par Vaishvik Aadhunik Pravritiyon ka Prabhav. Vaageshwari, 28, 72-74.

Tiwari, Harish. (2016). Bhartiya Sangeet evam Gharana. Vageeshwari, 29, 20-30.

### **Research Projects**

Dr. Ajay Kumar got a Sangeet Natak Akademi & UNESCO project on "Tradition and Creation of Pandit Anokhe Lal Mishra: Preserving the Cultural Heritage of the Banaras Gharana".

Total Grant:

Professor Deepti Bhalla got a Ministry of Culture, Govt. of India project on "Rare Abhinaya Rachanas". Total Grant: Rs. 4 lakhs

### **Inter-Institutional Collaboration**

A Lecture series by Dr. Vishal Kumar, Eminent Scholar, to the students of M.A. (P) on 9-11 March 2016, on "Recording Techniques and Equipments".

An Interactive talk by Dr. Jyotsna Tiwari, Associate Professor, Dept. of Education in Arts and Aesthetics, NCERT, New Delhi, and professionals from “Music Basti”, on 29 Mar. 2016, on “Career Opportunities in Music Education”.

A Lec. Dem. by Pt. Dal Chand Sharma, noted Pakhawaj exponent, to the students of M.Phil. on 31 March 2016, on “Tala’s Dash Pranas”.

### **Conference Presentations**

A two day International Seminar on “Changing Scenario of Performance Practice in Indian Music” on 15-16 March 2016

Deepti Bhalla delivered keynote address on ‘Future of Indian Classical Music’, in National Seminar organised by Department of Music, Bhagalpur University, Bihar, Nov. 2015.

Deepti Bhalla, Deepti presented ‘The Power of ten’ in Natya Kala Conference, Chennai, Dec. 2015.

Deepti Bhalla delivered lecture on “Importance of Ancient Texts” in Department of Music University of Kerala, October 2015.

M. V. Bindu presented ‘Changing Scenario of Performance Practice in Karnatak Music’, in National Seminar on ‘Changing Scenario of Performance Practice in Indian Music’, held on 15-16 March, 2016.

Prateek Chaudhuri gave demonstration on “Karshni Utsav” in Music & Dance at Karshni Ashram, Mathura on 9<sup>th</sup> Feb. 2016.

Prateek Chaudhuri presented “Music & spiritualism” in National Seminar on “Spirituality and Science’ held in Dayal Bagh Educational Institute, Dayalbagh, Agra, 19<sup>th</sup> March, 2016.

Ananya Kumar Day presented ‘Changing scenario of performances and practice in Indian classical music’, in National Seminar on ‘Changing Scenario of Performance Practice in Indian Music’, Department of Music, University of Delhi, 15-16 March, 2016.

Hari Krishan Goswami presented paper on ‘Bhartiya Sangeet me Manch Pradarshan ka badalta svarup’, in National Seminar on ‘Changing Scenario of Performance Practice in Indian Music’, Department of Music, University of Delhi, 15-16 March, 2016.

Ajay Kumar presented paper in International Seminar on ‘Indian Music & Culture’, Nakornsawan Rajabhat University, Thailand , 26 January, 2015.

Ajay Kumar co-ordinated Music & Dance group in Bangkok at the International Music & Dance Festival, Thailand, from 25 January-2 February 2016.

Ajay Kumar was Music Director, National Tabla Summer Workshop, Sahitya Kala Parishad, Delhi, 2015-16.

Rishitosh Kumar performed, composed & directed "Rhythm Divine" for Youth Festival, organized by 'Delhi Celebrates', Sahitya Kala Parishad, Delhi Govt. at Central park, Connaught Place, 24th Feb. 2016.

RishitoshKumar organized a two-day 'National Music Festival' on the occasion of the title "A homage to Tabla Wizard Pt. AnokheLal Mishra Legendary & Tabla Maestro Pandit ChhoteLal Mishra" (by Naad Aura organization) at India Habitat Centre, 17<sup>th</sup> and 18<sup>th</sup> March 2016

Anupam Mahajan presented 'Development of String instruments and its Musical Forms', at Conservatory of Music, Beijing, China, October 2015.

Anupam Mahajan presented "Development of Indian Classical Instruments, with special reference to the changes occurred", at Fujion Normal University, Fujion, China, October, 2015.

Jagbandhu Prasad presented 'Sangeet Shiksha Ke Badalte Swaroop Mein Internet Ki Bhoomika', in National Seminar on 'Changing Scenario of Performance Practice in Indian Music', Department of Music, University of Delhi, 15-16 March, 2016.

Sudipta Sharma presented 'Make in India: Its implications', in National Seminar on 'Make in India: Problems & Prospects", RGSC, BHU Barkachha, Mirzapur, March, 2016.

Rajpal Singh presented 'Bhartiya Sangeet Prastutikaran Evam Sansthaगत Shikshan', in National Seminar on 'Changing Scenario of Performance Practice in Indian Music', Department of Music, University of Delhi, 15-16 March, 2016.

Shalini Thakur presented 'Changing scenario of performances and practice in Indian classical music', in National Seminar on 'Changing Scenario of Performance Practice in Indian Music', Department of Music, University of Delhi, 15-16 March, 2016.

Harish Tiwari gave presentation in Alladiyan Khan Festival, Chembur, Mumbai, 10 Apr. 2016.

Harish Tiwari gave presentation in Chandigarh Sangeet Sammelan, Chandigarh, 30 Oct. 2015.

Harish Tiwari gave presentation in Chippra Mahotsav, Ujjain, Allaiddin Khan Academy, Bhopal, 7 Feb. 2016.

Harish Tiwari gave presentation in Doordarshan programme, New Delhi, Jun. 2015.

Harish Tiwari gave presentation in Governor House, (in front of the Vice President of India and the Prime Minister of Thailand), organised by ICCR, 3 Feb. 2016.

Harish Tiwari gave presentation in Jawahar Kala Kendra, Jaipur, 19 Mar. 2016.

Harish Tiwari gave lecture and live performances at International Dance and Music Festival, Bangkok, Faculty of Fine Arts, Srinakharinwirot University, Thailand, 25 Jan. to 2 Feb. 2016.

Harish Tiwari gave presentation in Tansen samaroh, Gwalior, 26 Dec. 2015.

Rajeev Verma worked as National Programme of Music - Sitar Vadan, May 2015.

Rajeev Verma gave presentation on Sitar Vadan, Prasar kala manch, K. L. Sehgal Hall, Jalandhar, Sept. 2015.

#### **Number of M.Phil/Ph.D. Degrees Awarded**

M.Phil. : 24

Ph.D. : 18

### **Other Significant Information**

Sadhayan: A baithak (seated on the floor in style of concert) is organised from time to time, in order to promote young and promising students from within the department, so as to give them a platform to showcase their talent in the league of established artistes of national standing. This concert is held twice this year.

The Malhar Utsav: An annual festival of Indian Classical Music organised by the department to celebrate the spirit of the rainy season. The ragas and the compositions celebrate the joy of the arrival of the monsoon after the heat of the parched summer. This year, the two-day festival was held on 8-9 September 2015 at the Convention Hall, Vice regal Lodge, University of Delhi, Delhi.

## **FACULTY OF APPLIED SOCIAL SCIENCE AND HUMANITIES**

### **BUSINESS ECONOMICS**

#### **Major Activities and Achievements**

During the period 1<sup>st</sup> April 2015 to 31<sup>st</sup> March 2016, the Department of Business Economics successfully ran its MBA programme in Business Economics and a Ph.D. programme. The placement cell of the Department was successful in finding placements for 42 final year students, and 54 first year students. Three students were awarded doctoral degrees. A series of special lectures were organized on Principal Component Analysis and Advanced Time Series Econometrics for PhD students. Twenty-one weekly seminars were organized on different topics. The students were taken on a field trip to the Aravali Bio-diversity Park in New Delhi. Several films were screened in the Department as a part of the curriculum. Other student activities organized in the Department included: Vishleshan, Annual Alumni Meet, Annual Convention, Arthniti, Markquest and Moolyankan. Many teachers presented Papers in National and International Conferences and contributed to the development of Modules under e-PG-pathshala program of the UGC.

#### **Publications**

Aggarwal, Nitika. (2015). Structuring for Investment in the Healthcare sector in India. Taxmann Publications. Delhi.

Dastidar. A.G. (2015). The Global Recession and Emerging Economies. Journal of Business Thought. 6: 3-13.

Gupt, Yamini. & Sahay, Samraj. (2015). Review of Extended Producer Responsibility: A Case Study Approach. Waste Management and Research. 33: 7.

Gupt, Yamini. & Sahay, Samraj. (2015). Managing Used Lead Acid Batteries in India: Evaluation of EPR-DRS Approaches. Journal of Health and Pollution. 5: 8.

Kaul, V. K. (2015). India's Diversity: From Conflict to Innovation, World Affairs. 19: 4. Winter. Oct-Dec.

Kaul, V. K. (2015). India's Diversity and Globalisation: Unifying Forces and Innovation, Emerging Economy Studies. Sage. IMI:1. Issue 2. November.

Kaul, V. K. (2016). Management - Text and Cases. Vikas Publishing. New Delhi.

#### **Research Projects**

Dr. Yamini Gupta is Co-Principal Investigator for Modeling Studies on Greenhouse Gas Emission and Emission Intensity of Indian Economy, Ministry of Environment, Forests and Climate Change with a grant of Rs. 43.25 lakhs.

### **Conferences Organized**

ICSSR funded Conference on ‘Reassessing India’s Industrialization Strategy’ was organised on 11th April, 2016 at University of Delhi South Campus. Convener was Mr. Chander Mohan.

Forty-Second Annual Convention 2015 was organised on “Embracing Adaptability: Honoring the Past, Seizing the Present, Shaping the Future” on 14<sup>th</sup> October 2015 at Hotel Radisson Blu, New Delhi.

### **Conferences Presentations**

Dr. Ananya G. Dastidar was discussant for two papers on Domestic Credit, School Enrollment & Hi-Tech Exports in Bangladesh” (Sandip Sarker and Arifuzzaman Khan) and “What Next with NIFA? A Lesson from Trends and Contests behind Currency Convergence in South Asia” (D.I.J. Samaranyake and Kinga Choden) in the 2<sup>nd</sup> International Conference on South Asian Economic Development’, Faculty of Economics, South Asian University, New Delhi, 18<sup>th</sup> February, 2016.

### **Inter-Institutional Collaboration**

Professor Suresh Chand Aggarwal was awarded as PI by UGC –e-Content Development for Post Graduate Courses in Business Economics that is to be jointly worked at SGTB Khalsa College, Delhi University with a grant of Rs 91 lacs.

Professor Suresh Chand Aggarwal is a lead researcher on Labour under the research project, “Disaggregate Industry Level Productivity Analysis for India: The KLEMS,” being undertaken at the Centre for Development Economics, Delhi School of Economics, financially supported by the Reserve Bank of India.

Prof. Rashmi Agrawal was awarded as Co-PI by UGC –e-Content Development for Post Graduate Courses in Business Economics that is to function jointly at SGTB Khalsa College, Delhi University with a grant of Rs 91 lacs.

### **Ph.D. Degrees Awarded**

Ph.D. : 03

### **Faculty Strength**

Permanent: 07

Ad-hoc: 01

## **SLAVONIC AND FINNO-UGRIAN STUDIES**

### **Major Activities and Achievements**

The Department of Slavonic and Finno-Ugrian Studies is the only Department in India which offers courses in Slavonic languages namely Bulgarian, Croatian, Czech, Polish, Russian and Hungarian from the Finno-Ugrian group of languages. Today’s interconnected world places several challenges before contemporary students in respect of the knowledge and understanding of various global languages and cultures. The Department addresses the immediate need of a large number of students who aspire to travel and be academically prepared for study and employment in global institutions. In this sense, the Department fulfils a largely under-served critical need in the country by directly making students conscious of a rich heritage and making them employable. The courses offered by the Department have a two-fold aim - to empower students to become fluent users of these languages and to acquaint them with the diverse and rich civilizations of the important regions of East - Central Europe and Russia. The approach to teaching adopted by the Department is interdisciplinary and intercultural and we aim to create and emphasize a broad-based outlook that can promote critical and analytical skills of the students and enable them to

research both traditional and emerging disciplines. The Department provides an exciting, vibrant, and affable environment to pursue language and literature study by critically exposing students to some of the greatest literary works and scholarly writings produced in East-Central Europe and Russia and encouraging them to analyse them against the backdrop of Western European and Indian cultures. This is further enhanced by developing language skills not merely through text-books and dynamic interaction but also by laying emphasis on other activities like film shows, exhibitions, quiz programmes, celebration of national festivals etc. This provides direct exposure to the languages and cultures of these societies and makes language learning a more meaningful and enjoyable experience with a lasting and long-term impact.

### **Honours/Distinctions**

Dr. Neelakshi Suryanarayan was awarded Diploma of Merit after being declared a winner of the first round of the International Contest “Good teacher of Russian language abroad”.

Dr. Neelakshi Suryanarayan was awarded two Diplomas’ of Merit in the second round of the International Contest “Good teacher of Russian language abroad” held in Moscow 20<sup>th</sup>-24<sup>th</sup> October 2015.

### **Publications**

Janjic’, Marijana. (2015). *East Central Europe and Russia Society and Culture 20 Years After*: “Language, Politics, Nationhood, Livelihood” in Prakashan Sansthandiádó. New Delhi.

Joshi, Rashmi. (2015). *East Central Europe and Russia Society and Culture 20 Years After*: “An Appraisal of Bulgarian Literature Post-1989” in Prakashan Sansthandiádó. New Delhi.

Koves, Margit. (2015). Spaces, Bodies and Arts in the Work of László Krasznahorkai in: *Comparatism and the function of genre* Goethe Society of India Yearbook 2015. Ed. by Chitra Harsvardhan. Rekha Rajan. Madhu Sahani. Peter Lang. Delhi. 9-22.

Koves, Margit. (2015). Irony in Romanticism and in Postmodern Literature. *Journal of Literature Studies*. July. 1: 2. 89-96.

Koves, Margit. (2015). Between East and West. (2015). *Frontline*. September 18. 91-93.<http://www.frontline.in/arts-and-culture/literature/between-east-west/article7603355.ece>

Koves, Margit. (2015). The Limits of Total Narration and the Experience of the East in László Krasznahorkai’s Work. *Social Scientist*. 43: 9-10. September-October. 41-52.

Koves, Margit. (2015). Lanczkor Gábor volt az európai irodalmak éjszakájának vendége Delhiben. Hungarian Gábor Lanczkor Poet was the Guest of the Long Night of Literatures in Delhi. *Litera*, <http://www.litera.hu/hirek/lanczkor-gabor-volt-az-europai-irodalmak-ejszakajanak-vendege-delhiben>

Koves, Margit. (2016). The Role of Art and Poetry in Religion. *Ethics and Society*. 5 January. 1-14.

Molhova Yakova, Galina. (2015). The somatic code within the culture code system. International scientific conference “Bulgarian readings”. Seged. Hungary.

Molhova Yakova, Galina. (2015). Somatic phraseologisms representing conceptual field of emotions in the Bulgarian and in the English Languages. Seventh International conference of Lexicography and lexicology “The Lexicology in the beginning of XXI century”, Bulgarian Academy of Science, Sofia, Bulgaria.

MolhovaYakova, Galina. (2015). The lectorchip – Bulgarian culture territory on the world. Interview. National edition AZBUki. Sofia. Bulgaria.

Saxena, Ranjana. (2015). *East Central Europe and Russia Society and Culture 20 Years After*: “Breaking the Silence and opening the Suitcase: testimonies of women from Central Europe and India” in Prakashan Sansthandiádó, New Delhi.

Saxena, Ranjana. (2015). Conference proceedings “Revisiting East Central Europe and Russia Society and Culture 20 years after.

Suryanarayan, Neelakshi. (2015). From Yashwant Place to Yashka: A Case Study of Commodification of Russian in India. Taylor & Francis Online. <http://www.tandfonline.com/doi/full/10.1080/13670050.2015.1115003>.

Suryanarayan N. (2015). Kinofilm A. Tarkovskovo “Andrei Rublyov” Na zanyatiyakhpo Russkoi Kulture v Indisskoi auditorii. Pedagogicheskii opit In *Ruskiyazik I LiteraturaprostranstveMirovoiKulturi*. Materiali XIII Kongressa MAPRYAL v 15 Tomakh. Tom 3 Napravleniye2 Russkaya Kultura v Epokhu Globalizatsii. [http://ru.mapryal.org/wpcontent/uploads/2015/10/MAPRYAL\\_T3\\_A5.pdf](http://ru.mapryal.org/wpcontent/uploads/2015/10/MAPRYAL_T3_A5.pdf)

Suryanarayan N. (2015). Ruski kinematograf v Massovoimezhkulturnoi Kommunikatsii (Kinofilm A. Tarkovskovo “Andrei Rublyov). In *Sredstvomassovoikommunikatsii v mnogopolynnom mire: problem i perspektivi* Ed: V. Barabash. RUDN, Moscow.

### **Research Projects**

Dr. Rashmi Joshi was awarded an R & D Project on “A text Book on Bulgarian History for Indian students” for the year 2015-16.

### **Conference Organized**

Dr. Rashmi Joshi was the Co-convenor of a Seminar on “History and Culture of Bulgaria organized by the Embassy of Bulgaria on 15<sup>th</sup> September 2015.

Ms. Anandna Kapoor organized a Workshop on “Aglaya “Hungarian Film” on 29<sup>th</sup> October 2015.

### **Conference Presentations**

Munjal, Girish & Dziuban, Anna presented a paper on “*How to Teach and Learn Polish Grammatical Cases and their Effective Use in Speech*” at the International conference: “Speaking in a foreign language: Enhancing the quality of classroom interaction”, Konin, Poland, 11 - 13 May, 2015.

Munjal, Girish presented a paper on “*Syntactic & Semantic Analyses of Grammatical Cases in Polish & Hindi Languages*” at the International conference: Various Dimensions of Contrastive Studies, University of Silesia, Institute of English, Szczyrk, Poland, 25-27 October 2015.

Dr. Neelakshi Suryanarayan presented a paper “Interpretation of eschatological motifs in the poems of N. Gumilyev in an Indian classroom. An Intercultural approach in an International conference “Utopia and eschatology in Literature, Art and Philosophy of Russian Modernism.” Organized by A.M. Gorky Institute of World Literature and Russian Academy of Sciences, Moscow, Russia, 24-26 June 2015.

Dr. Neelakshi Suryanarayan presented a paper “Stand –up Comedy in the XXI century: New horizons, New Perspectives.” in an International conference “Patriotism, Citizenship, Nationalism: Political Concepts in Contemporary Mass Culture.” The Perm State Humanity Pedagogical University, Perm, Russia, 26-27 June 2015.

Dr. Neelakshi Suryanarayan presented a paper titled “Andrei Tarkovsky’s film «ANDREI RUBLEV» in a class on Russian Culture with Indian Students: A pedagogical Experience.” In an International Congress MAPRYAL (International Association of Teachers of Russian Language and Literature) ““Russian language and literature in the space of world culture” Granada, Spain, 13-20 September 2015.

Dr. Neelakshi Suryanarayan presented a paper on “Ancient Bulgarian History to the Middle Ages” in a seminar on “History and Culture of Bulgaria organized by the Embassy of Bulgaria, 15 September 2015.

Dr. Neelakshi Suryanarayan was Plenary speaker on “Russian cinema in mass intercultural communication. Andrei Tarkovsky’s ‘Andrei Ryublyov’” in VI All Russian Conference “Means of Mass Communication in a Multipolar World: Problems and Perspectives.” Peoples Friendship University of Russia, Moscow, Russia, 20-21 October, 2015.

### **Inter-Institutional Collaboration**

There is Memorandum of Understanding with Abai Kazakh Pedagogical University, Kazakhstan; University of Pecs, Hungary; Russian State University for Humanities, Moscow, Russia and Tomsk State University, Russia.

### **MPhil/Ph.D. Degrees Awarded**

Ph.D. : 01

M.Phil.: 10

### **Faculty Strength**

Permanent: 03

Ad-hoc: 05

### **Other Significant Information**

Nine students (2 Bulgarian, 1 Croatian, 2 Czech, 3 Polish, 1 Russian) have been awarded scholarships to attend various academic programmes.

## **FACULTY OF COMMERCE AND BUSINESS**

### **COMMERCE**

#### **Major Activities and Achievements**

Revision of Undergraduate Courses syllabus

To implement the syllabus under choice based credit system (CBCS) of B. Com. (Hons.) and B.Com., joint committee of faculty members and college representatives worked on the proposed UGC-CBCS syllabus to make the improvements as suggested by the UGC. Over 200 comments on the syllabus from many teachers through mail and telephonically was incorporated. After due approval by Faculty of Commerce and Business and relevant authorities the syllabus was then implemented from the academic session 2015-16.



Reminiscence' 15 – MBA Alumni Meet

Honourable Chief Minister of Delhi, Mr. Arvind Kejriwal graced the event as Chief Guest. His address was followed by a felicitation ceremony for alumni and launch of the alumni website.

The Department of Commerce organized the 1st Delhi University M.Com Alumni Meet on October 04, 2015 at Conference Centre, University of Delhi. The event was attended by a large number of alumni, faculty members and students. The Chief Guest for the event was Dr. Harsh Vardhan, Hon'ble Minister of Science and Technology, Government of India.

Two days Annual Management Fest “Atharva” and HR fest “Conflux” has been organised by the students of MBA-IB and MBA-HRD every year which is actively participated by other college and management students.

An international delegation from Azerbaijan University comprising Vice Rector for External Government and Students Affairs, ADA University Dr. Fariz Ismailzade, along with Counsellor Yegana Gafgazli and Vice Rector Prof Dr. Rameshwar Kanwar visited Department of Commerce on Dec. 22, 2015.

Delegation from Stillman School of Business, Seton Hall University, South Orange, USA visited Department of Commerce on March 3rd, 2016. The delegation was led by Prof. A.D. Amar, full professor of Management at Stillman School of Business, USA. Prof. A. D. Amar gave a special lecture on Searching for “Growth Opportunities in Knowledge Organisation

In today's age when every country and society is pacing towards economic growth & development on a one-way road, nature and environment have been given back seat on the wagon. Department of Commerce has step up to do its bit which has led to the formation of the Eco-Club.

### **Honours/Distinctions**

Best Research Paper Award for Tripathi, Vanita & Seth Ritika “Market Efficiency, Inter –Linkages And Volatility Transmission In Stock Markets Of SAARC Countries” presented at UGC sponsored National Seminar on Changing Business and Economic Environment in India: Vision 2020 organized by Sri Aurobindo College, University of Delhi during 26-27 February 2016.

Best Research Paper Award for Tripathi, Vanita & Kumar, Arnav “ Efficiency, Determinants and Performance of Service Sector Stocks : Evidence from India” presented at 3rd International Conference on Booming Service Sector from Achievements to Growth Prospects organized by Sri Guru Gobind Singh College of Commerce, University of Delhi during 4-5<sup>th</sup> February 2016.

Best Paper Award for paper Tripathi, Vanita & Kumar Arnav (2015) “Relationship between Macroeconomic Factors and Aggregate Stock Returns in BRICS Stock Markets- A Panel Data Analysis” presented at National Conference on Sustainable Business Practices for Emerging Global Markets organized by Vivekanand Institute of Professional Studies, GGSIP University, 27-28 November 2015.

Dr. Sunaina Kanojia received Best Paper Award for paper titled “Corporate Governance in India Banks Post Subprime Crisis at the 5th International Interdisciplinary Business-Economics Advancement Conference (IIBA) on Nov 16-21, 2015, Florida, USA.

### **Publications**

Barai, Munim K., Rabi Narayan Kar and Niti Bhasin (2015), “Understanding the Indo-Japan Economic Relations in the Asia Pacific Century”, *Global Business Review*, Vol. 16, No. 6, pp. 1061-1081.

Bhanu Murthy, K. V. and Bhasin, Niti (2016), "Environmental Kuznets Curve: CO2 Emissions, Pollution Havens and Type of Economic Development". In *Emerging Dynamics of Sustainability in Multinational Enterprises*, John R McIntyre, Silvester Ivanaj, Vera Ivanaj, and Rabi Narayan Kar (eds.). Edward Elgar: UK.

Bhasin, N., & Justin.P (2016).Exports and outward FDI: Are they complements or substitutes? Evidence from Asia. *Multinational Business Review*. 24(1), 62-78.

Bhasin, Niti, Bhanu Murthy K.V. and Jain, Vandana (2016), "Push Factors causing Outward FDI from Select Asian Economies: Is Sustainability a Concern?". In *Emerging Dynamics of Sustainability in Multinational Enterprises*, John R McIntyre, Silvester Ivanaj, Vera Ivanaj, and Rabi Narayan Kar (eds.). Edward Elgar: UK.

Bhasin, Niti, Rabi Narayan Kar and Neha Arora (2015), "Green Disclosure Practices in India: A Study of Select Companies", EVERGREEN (Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy), Vol. 2, Issue 2, pp. 5-13.

Khanna, S.R., Singh. A., Sanyal. A., Sharma. R., Arora. Y. & Chhibber. A.(2015). Understanding and Estimating Consumer Detriment in Indian Market, *VOICE & GIZ*, 260.

Saikia, K., & Shrotryia, V.K. (2016). Corporate Social Responsibility in Petroleum Sector: A study of Beneficiaries' Perception in Oil Refineries in Assam, 2<sup>nd</sup> chapter in *New Horizons Leveraging Business* (eds) Kavita Sharma &Sunaina Kannoja, Anmol Publications, New Delhi, 22-44.

Sharma, K., & Garg, S. (2016). An Investigation into Consumer Search and Evaluation Behaviour: Effect of Brand Name and Price Perceptions. *Vision –The Journal for Business Perspective*, 20(1), 24-36.

Shrotryia, V.K. (2016). CSR: the way you look at it. *CSR Vision*, 4(11), 48-49.

Shrotryia, V.K. (2016). Startup India Action Plan: Provisions and Prospects. *Material Management Review*, 12(5), 23-24.

Shrotryia. V.K. (2015). Achchey Din for India and its markets. *SME World*, 8(11) , 12-13.

Singh, R.K. (2015). Constructs of Training And Organizational Effectiveness: A Proposed Model, *MAIMS Journal of Management*, 10(1).

Tripathi, V., & Bhandari, V. (2016). Market Conditions and the Performance of Socially responsible stock portfolios in India. *Business Perspectives*, 15(1), 1-19.

Barai, Munim K.,Kar, R.N., & Bhasin, N. (2015).Understanding the Indo-Japan Economic Relations in the Asia Pacific Century.*Global Business Review*, 16(6), 1061-1081.

Bardhan, A.K., and Dangi. H.K., (2016) Drivers and Indicators of performance in relief chain: An empirical study. Accepted for publication in *Global Business Review*, 17(1) 88-104.

Bhasin, N., Kar, R.N., & Arora.N., (2015).Green Disclosure Practices in India: A Study of Select Companies. *EVERGREEN* (Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy), 2(2),5-13.

Sharma, K., & Bansal, M (2016), 'Measuring Environmental Consciousness' in Emerging Dynamics of Sustainability in Multinational Enterprises, ed. Vol. by John R McIntyre, Silvester Ivanaj, Vera Ivanaj, and Rabi Narayan Kar, E Elgar, UK and USA.

Singh, A.K.,(2016) Long-Run Performance of IPO market in India. *International Journal of Financial Management*.

Singh, R.K. (2015). Human Computer Interface: A Study of College Goers, *International Journal of Science, Technology & Management*, 4(5), 2394-1537.

Tripathi, V., & Bhandari, V., (2015). Do ethical Funds Underperform Conventional Funds?- Empirical Evidence from India. *International Journal of Business Ethics in Developing Economies*,4(2) 10-19.

Tripathi, V., & Bhandari. V., (2015) Socially Responsible Stocks- A Boon for Investors in India. *Journal of Advances in Management Research*, 12(2) July 2015.pp 209-225 DOI 10.1108/JAMR-03-2014-0021.

Tripathi, V., & Bhandari. V., (2016). Performance of Socially responsible stock portfolios across sector in Indian stock market. *International Journal of Business Ethics in Developing Economies*,5(1) 10-24.

Tripathi, V., & Kumar. Arnav., (2016). Sources of systematic risks in Indian Banking Stock Returns- Some empirical evidences. *Business Analyst*, 36(2) , 135-150.

Tripathi,V., and Maggo, S. (2015). An Empirical Analysis of Foreign Institutional Investment in Equity and Debt Market in India. *Journal of International Economics*,6(1),107-117.

Dangi, H.K., & Dewen. S.,(2016). *Business Research Methods*. New Delhi: Cengage India Limited.

Sharma, K., & Kanojia,S., (2015). *New Horizons for Leveraging Business*. New Delhi: Anmol Publications.

### **Research Projects**

Dr. H. K. Dangi, "Disaster preparedness of religious places", University of Delhi, Rs.1 Lakh.

Prof. Kavita Sharma, "Energy Saving Products and Sustainable Cities", University of Delhi, Rs.1.4 Lakh.

Prof. V.K. Shrotrvia, "An exploratory study on constituents of organizational happiness in India", University of Delhi, Rs.1.2 Lakh.

Prof. Madanlal, "Fruit A Study of competitiveness and Export Performance of Indian Processed and Vegetable Industry", UGC. Rs.6.74 Lakhs.

Prof.Reetesh K. Singh, "Entrepreneurship in local markets: A study of Eastern UttarPradesh towns", University of Delhi, Rs.1.5 Lakhs.

### **Conferences Organized**

20th Annual Business Convention "Erudition 2015" was organized jointly by the students of MBA (Human Resource Development) and MBA (International Business) on September 16 and 17, 2015 at NDMC Convention Centre, Sansad Marg, New Delhi. The theme of Erudition'15 was 'Ignite-The Vision Forward'. Erudition '15 provided a common platform to educationists, industrialist, entrepreneurs, and management gurus to share practical knowledge and their insights on current business practices globally with the students. The Chief Guest of the

Erudition'15 on the first day was Justice MarkandeyKatju (Former Judge Of Supreme Court Of India) and the Keynote Speaker was Mr. AnnuragBatra (Chairman & Editor-in-Chief BW| Businessworld )

The Department of Commerce at Delhi School of Economics successfully organized the two day 4th Annual International Commerce Conference on the December 18 and 19, 2015 at Convention Centre, Delhi University Campus. The inaugural session of the Convention was chaired by Shri N R Narayana Murthy, Founder, Infosys as the Chief Guest for Day 1. The annual mega event witnessed over 100 research paper presentations from scholars across the country on Day 2 of the 4th Annual International Commerce Convention 2015.

Department of Commerce organized a special lecture by Dr.Bimal Chhajer on “Prevention and Reversal of Heart Disease” on September 02, 2015.Dr.BimalChhajer MBBS, MD is a well-known personality in the world of medical science.

Symposia: HR Symposia for MBA-HRD students and IISAC Symposia for MBA-IB students was held in Sept. 2015.

Special Lectures:

Prof. Rajneesh Narula from Henley Business School, UK delivered a special lecture on “Developing countries MNEs and weaknesses in organizational skills” 28th March, 2016

Dr. Suraksha Gupta from Kent Business School, UK delivered a lecture on “Role of MNCs in achievement of MDGs” on 22nd February, 2016

### **Conference Presentations**

Prof. Kavita Sharma

'A Study of Customer Lifetime Value and Its Impact on Customer Retention'paper was presented at 6<sup>th</sup> IIMA Conference on Marketing in Emerging Economies held from 7-9, January, 2015 at IIM Ahemdabad.

Presented a paper titled 'label Perceptions and Consumer Behaviour- An Empirical Investigations Resolving Sustainability Paradox' as MESD'15 Conference organised by ISCTE-IUL, ICN- Business School, and Centre for International Business Education and Research, Georgia Institute of Technology from Dec. 13-15, 2015 at Lisbon, Portugal.

Prof. S. R. Khanna

Khanna, S.R., & Goswami, A. A comparative evaluation of virtual learning platforms and its implementation. Presented at AIMA 10th National Conference on Integrating Technology in Management Education . 28-29 March 2016, New Delhi.

Prof. Sanjay K. Jain

Made a theme presentation on “Dealing with Invisible Barriers to Trade: Case of Country-of-Origin Effects and Consumer Ethnocentrism” at National Seminar on Growth and Impediments to International Trade organized by Gitarattan International Business School, GGSIP University on October 1, 2015.

Prof. Vijay Kumar Shrotryia

International Forum on Sustainable Happiness and Sustainable Development held at Rangsit University, Thailand on 20th March 2015 –International Happiness Day (presented a paper entitled Bhutan’s Experiments with Gross National Happiness – Leading towards Sustainable Development).

Strategies for National Well-Being : Role of youth power in India during National Seminar on Role of NSS in National Building : Scope and Challenges held at NEHU Shillong on 5-6 March 2015 (Chaired a session also)

Prof. R. K. Singh

Paper entitled ‘Spirituality and Commitment: A Grounded Theory Approach’ presentation with Ms. Rajni Hira in ‘International Conference on CSR in Globalized World: Emerging Issues and Challenges’ organized by Indian Institute of Management, Calcutta on 26-27 February, 2016.

Paper presentation along with Ms. Rajni Hira titled ‘Spirituality: A Sustainability Anchor’ in ‘International Conference on Sustainability Business Models: Innovative Strategies and Practices’ organized by Department of Commerce, Shyam Lal College, University of Delhi on March 16-17, 2016.

Dr. Vanita Tripathi

Tripathi, Vanita and Nerza (2015) “ Are Investment Strategies Based on Macroeconomic Factors?- A Survey of Investment Analysts in BRICS Stock Markets” presented at 3<sup>rd</sup> National Conference on Financial Markets and Economic Development organized by USMS, GGS IP University and NSE on 17<sup>th</sup> April 2015 at IP University campus.

Tripathi, Vanita and Maggo Shilpa(2015) “ FII Flows in Indian Debt Market and Bond Yields- Empirical Results” presented at 3<sup>rd</sup> National Conference on Financial Markets and Economic Development organized by USMS, GGS IP University and NSE on 17<sup>th</sup> April 2015 at IP University campus.

Tripathi, Vanita and Bhandari Varun (2015) “Performance Evaluation of Ethical and Conventional Funds- A Study of Taurus Mutual Fund in India” presented at 3<sup>rd</sup> National Conference on Financial Markets and Economic Development organized by USMS, GGS IP University and NSE on 17<sup>th</sup> April 2015 at IP University campus.

Tripathi Vanita & Maggo Shilpa “An Empirical Analysis of Foreign Institutional Investment in Equity and Debt Markets in India” presented at National Conference on Emerging Trends and Contemporary Issues in Marketing and Finance sponsored by UGC , April 8, 2015 organized by Ramanujan College, University of Delhi.

Tripathi Vanita & Kumar Arnav “ Sources of Systematic Risks in Banking Stock Returns in India: Some Empirical Evidences” presented at National Conference on Banking Sector Reforms in India: Experience, Opportunities and Challenges, sponsored by UGC, April 6-7 2015 organised by Shri Ram College of Commerce, University of Delhi.

Tripathi Vanita and Neerza “Private Equity Investment in E Commerce Firms in India- Trends and Challenges” at UGC sponsored National Seminar on Online Retail in India: Issues and Challenges organized by Indraprastha College for Women, University of Delhi during 18-19 Feb 2015.

Tripathi, Vanita & Kumar, Arnav “ Relationship Between Inflation and Stock Returns in BRICS markets : Empirical Evidence Using Panel Cointegration Test” presented at 9<sup>th</sup> National Conference on Indian Capital Markets” organized by IBS Gurgaon 13-14 Feb 2015. This paper was awarded BEST PAPER AWARD at the conference.

Tripathi Vanita & Neerza “ Macroeconomic Factors and Stock Performance across Emerging Markets- A survey of Stock Market Experts” presented at 9<sup>th</sup> National Conference on Indian Capital Markets” organized by IBS Gurgaon 13-14 Feb 2015.

Tripathi Vanita & Aggarwal Priti “Value Investing and Behavioural Finance: Some Empirical Evidence” in UGC sponsored National Conference on “Role of Behavioural Finance in Indian Financial Market” organized by Satyawati College (Eve) on 30<sup>th</sup> March 2016.

Tripathi Vanita & Neerza “Performance of Popular Investment Strategies in Indian Stock Market” in National Conference on “Globalisation, Economic Development and Sustainability” organized by Shivaji College, University of Delhi on 29<sup>th</sup> March 2016.

Tripathi, Vanita & Garg Swati “A Cross-Country Analysis of Pricing Efficiency of Exchange Traded Funds” presented at UGC sponsored National Seminar on Changing Business and Economic Environment in India: Vision 2020 organized by Sri Aurobindo College, University of Delhi during 26-27 February 2016.

Research paper titled “Contemporaneous, lagged and Causal Relationships between Corporate Social & Financial Performance in Select Companies in India” presented in 4<sup>th</sup> International Annual Commerce Convention held during 18-19 December 2016 organised by Department of Commerce, Delhi School of Economics, University of Delhi.

Dr. Niti Bhasin: Presented paper entitled “How Does Institutional Mechanism Influence Competitiveness? Research Agenda and Evidence from Selected Countries” (jointly with Dr. Rabi Narayan Kar and Dr. Slagjana) at the Reading-UNCTAD International Business Conference held on June 13-14, 2015, at the Henley Business School, University of Reading, UK.

Dr. Shital Jhunjhunwala: Presented a paper titled “Diversity Levels in Indian Boards” at the international conference on Corporate Governance at Institute of Public Enterprise, Hyderabad held on Jan 6-7, 2016.

Ms. Shilpi Sahi: Presented a paper on “Integrating Human Resource Development with Technology”, in National Seminar on “Emerging HR Practices for Organizational Excellence” of Atma Ram Santan Dharma College, University of Delhi, Delhi 24<sup>th</sup> and 25<sup>th</sup> March, 2015.

Ms. Manisha: Presented a paper titled “Green Marketing: An Aspect of CSR” on 2<sup>nd</sup> day of 4<sup>th</sup> Annual International Commerce Convention held on 19, 2015 at Department of Commerce, DSE, Delhi University Campus.

## **FINANCIAL STUDIES**

### **Major Activities and Achievements**

#### **Annual Convention**

The Department conducted its XXVIII Annual Convention on the theme: “Achieving Growth Through Financial Sector Development: Vision 2020”, on 19<sup>th</sup> September 2015 at Hotel Shangri-La, New Delhi. The occasion marked the publication of the Department’s annual magazine, Finscoop. Dr. P.K. Anand, Senior Consultant, NITI AYOOG was the Chief Guest. Mr. D.R. Dogra, MD and CEO, Care Rating delivered the Key Note Address. Mr. Ravi Krovi, Dean, College of Business Administration, University of Akron was the Guest of Honour.

#### **Honours/Distinctions**

Dewang Mehta National Education Award, 2015 as "Business School with Best Academic Input in Finance".

8<sup>th</sup> DNA & Stars of the Industry Group Presentation Education Awards for Innovation in Building Academic & Industry Interface.

### **Publications**

Prof. Muneesh Kumar: (2015) Determinants of Priority Sector Lending: Evidence from Bank Lending Patterns in India, *International Journal of Business and Finance Research*, Vol. 10.

Prof. Sanjay Sehgal: On the Possible Impact of Commodity Transaction Tax on India's Commodity Derivatives: An Empirical Study (2015). *Alternative Investment Analyst Review, Q42014, Volume 3, Issue 3, pp 26-37*

An investigation of price discovery and volatility spillovers in India's foreign exchange market (2015). *Journal of Economic Studies, Vol 42.*

Dissecting Sources of Price Momentum: Evidence from India (2015). *International Journal of Emerging Markets, Vol 10.*

Real estate investment selection and empirical analysis of property prices: Study of select residential projects for Gurgaon, India (2015). *International Real Estate Review, Vol 18, pp 523-566*

Regime Shifts and Volatility in BRIICKS Stock Markets: An Asset Allocation Perspective (2015). *International Journal of Emerging Markets, Vol. 10I, pp.383 – 408*

Stock Price Reactions to Earnings Announcement: Evidence from India (2015). *Vision: The Journal of Business Perspective, Vol 19, No. 1, pp 25-36*

DR. AMITABH GUPTA

Price Impact of Block Trading on the Bombay Stock Exchange, 2015, *The IUP Journal of Applied Finance*, vol. 21 (3), 5-15.

Market Reaction to Credit Rating Changes in India, 2015, *International Journal of Marketing, Financial Services and Management Research (IJMFMR)*, April-June vol.4 (2), 36-46.

### **Research Projects**

Prof. Sanjay Sehgal: Financial Integration in the SAARC Region: Empirical Analysis and Policy Issues by the Indian Council of Social Science Research (ICSSR) New Delhi, for two years, 2015-2017.

### **Inter-Institutional Collaboration**

The Department had entered into MoUs with ESC Pau, France for student exchange and summer training.

The Department entered into an MoU with REIMS Business School, France, for student and faculty exchange as well as joint research.

The Department entered into an MoU with University of AKRON, Ohio, USA for student exchange and joint research.

### **Conference Presentations**

Dr. Amitabh Gupta: How do Firm Characteristics Affect Capital Structure? Indian SMEs Evidence with C. Banga presented in the World Finance Conference, Buenos Aires, Argentina, July 22-24, 2015.

## **M.Phil./Ph.D. Degrees Awarded**

Ph.D. - 5

**Faculty Strength:** Permanent : 6; Guest Faculty : 11

## **COLLEGE REPORTS**

### **ACHARYA NARENDRA DEV COLLEGE**

#### **Major Activities and Achievements**

ANDC was placed 8<sup>th</sup> among Science colleges in Delhi and 25<sup>th</sup> amongst India's Science Colleges by India Today (2015). ANDC was certified 'Grade A' with 'Score 3.31' by NAAC (March 2016). Dr. Seema Makhija and Dr. Gagan Dhawan were recognized as Ph.D. guides by the University. The college was granted eleven Innovation projects and four ANDC students were given Science Meritorious Award of the University. At this silver jubilee year of the College, a grand festival '*Rajatotsav*' was organized (February 6-8, 2016), which included a three-day exhibition, inter-school and inter-college Volleyball tournaments, dance, street plays and debate competitions.

#### **Outstanding Honours /Distinctions**

Dr. Savithri Singh (Principal) was invited as an expert by UNESCO for the "Open Educational Resources (OER) Roadmap Meeting' at the UNESCO Headquarters, Paris (March 30-31, 2016), she is member, Advisory Group for ROER4D (Research on Open Educational Resources for Development) project, funded by the International Development Research Centre (IDRC), Canada involving 11 OER Adoption studies and 8 OER impact studies all located in the Global South (Specifically guiding three research projects in Malaysia, Columbia and India)(2013-2017).She is also a member, National Resource Group (NRG) on ICT in School Education and National Resource Group (NRG) for Rashtriya Madhyamik Shiksha Abhiyan (RMSA) constituted by the Ministry of Human Resource Development, Government of India.

Dr. Gagan Dhawan, received Meritorious Teacher Award 2015, by Directorate of Higher Education, Govt. of NCT of Delhi, and Raman Fellowship for Post Doctoral Research in USA for one year, by UGC (2016-17).

Dr. Charu K Gupta, Dr. Sunita Narang, Dr. Chandrakant Samal, Dr. Amit Garg, Dr. Roopesh Tehri and Dr. Arijit Chowdhuri were awarded Teaching Excellence Award for Innovation for the academic session 2014-15, by University of Delhi (May 01, 2015).

#### **Research Projects**

DST (Indo-Slovenia joint project), 2015-18, Exposure-Response assessment of Ambient Air Pollution (AAP) and Hg contamination in affected cities of India and Slovenia: A comparative study. 17.00 Lakhs.

DST, 2014-17, Analysis of light curves of variable stars. 6.60 Lakhs.

CSIR OSDD, 2013-16, Mtb Mur pathway enzymes: Potential candidates for multi-target therapy, 37.63 Lakhs.

DST 2010-16, Innovation and Entrepreneurship Development Centre (IEDC) – It provides funds for 5 innovative projects by students each year, 5 Lakhs.

DU innovation Projects 2015-16, 59 Lakhs



### Students with Distinctions

The Silver Jubilee Award for Best Student (Rs. 10,000/-) instituted this year was won by Ms. Priyanka Das Gupta of B.Sc.(H) Zoology.

### Library Development

The ANDC Library increased the number of books on its shelves by 300 and subscribed to two additional journals.

### Publications

Sinha, A., Kandasamy, E., Sinha, S., Lynn, A. M., & Bajpai, U. (2015) Functional Analysis of TPM Domain Containing Rv2345 of Mycobacterium tuberculosis Identifies its Phosphatase Activity. Protein Expression and Purification, 111, 23-27. (doi: 10.1016/j.pep.2015.03.003).

Ahamad, S., Khan, F. I., **Bajpai, U.**, Ali, S., Dwivedi, N. & Hassan, M. I. (2015) A Comparative Molecular Dynamics Study of MurA Enzymes from E. coli and M. tuberculosis. Innovations in Pharmaceuticals and Pharmacotherapy, 3 (3), 673-682.

**Dhawan, G.**, Chandra, R., Gupta, K. C. & Kumar, P. (2015) Facile and Rapid Deprotection Conditions for the Cleavage of Synthetic Oligonucleotides from 1,4-Anhydroerythritol-based Universal Polymer Support. Nucleosides, Nucleotides and Nucleic Acids, 34(3), 149-162.

**Dhawan, G., Gupta, S., Jain, M.**, Dhawan, U., Deepika, Dungriyal, P., Zaidi, Z., Singh, Y., Thakur, J., Dharmendra, Chauhan, A. & Sharma, K. (2015) An Explorative Study on Knowledge and Awareness of Health Problems Related to Usage of Fabric Dyes by Road Side Dyers in Delhi, India. DU Journal of Undergraduate Research and Innovation, 1(3), 20-25.

Chandra, S., **Hooda, S.**, Tomar, P. K., Malik, A., Kumar, A., Malik, S., & Gautam, S. (2016) Synthesis and Characterization of Bis-Nitarto[4-hydroxyacetophenonesemicarbazone]Nickel(II) Complexes Ionophore for Thiocyanate - selective Electrode. Material Science and Engineering C, 62, 18-27.

Bhatnagar, V., Ahuja, S. & **Kaur S** (2015): Discriminant Analysis-based Cluster Ensemble. International Journal of Data Mining, Modelling and Management, 7(2), 83-107.

Warikoo, R. & **Kumar, S.** (2015) Investigations on the Oviposition Deterrence and Ovicidal Potential of the Leaf Extracts of Argemone mexicana against an Indian Strain of Dengue Vector, Aedes aegypti (Diptera: Culicidae). Applied Research Journal, 1(4), 208 – 215.

Mishra, M., Gupta, K. K. & **Kumar, S.** (2015) Impact of the Stem Extract of Thevetia peruviana on the Feeding Potential and Histological Architecture of the Midgut Epithelial Tissue of Early Fourth instars of Helicoverpa armigera Hübner. International Journal of Insect Science, 7, 53-60. Doi: [10.4137/IJIS.S29127](https://doi.org/10.4137/IJIS.S29127)

Das, P., Solanki, R. & **Khanna, M.** (2015) Characterization of Extracellular Enzymes from Soil Actinomycetes: A Molecular Approach. International Journal of Biotechnology Trends and Technology, 10 (2), 20-32.

**Makhija, S.**, Gupta, R., **Toteja, R.**, Abraham, J. S. & Sripoorna, S. (2015) Cadmium Induced Ultrastructural Changes in the ciliate, Stylonychia mytilus (Ciliophora, Hypotrichida). Journal of Cell and Tissue Research, 15 (3), 5151-5157.

### Conferences Organised/ Paper Presented

Hooda S presented a paper entitled 'Cd (II) Ion Selective Polymeric Electrochemical Sensor for Environmental Protection'. 3<sup>rd</sup> Indo Italian workshop on Electrochemistry for Energy and Health, Department of Chemistry, University of Delhi, on Jul 3 - 4, 2015.

Sripoorna S, Abraham J S, Gupta R, Toteja R and Makhija S presented a paper on 'Characterization of Cadmium Induced hsp70 gene in *Tetmemena* n. sp. and its Use as a Molecular Marker for Heavy Metal Toxicity'. Ciliate Molecular Biology held at Camerino, Italy, Jul 10-16, 2015.

Sripoorna S, Abraham JS, Gupta R, Toteja R and Makhija S presented a paper on Taxonomic Evaluation of *Tetmemena* sp. by Morphological and Multiple Markers to Assess its Phylogeny. 4<sup>th</sup> workshop sponsored by the International Research Coordination Network for Biodiversity of Ciliates held at Qingdao, China, Oct 19-21, 2015.

Khanna M, Das P and Solanki R presented a paper on 'Screening and Characterization of Chitinase and Xylanase Producing Soil'. 56<sup>th</sup> Annual Conference of AMI, International Symposium on Emerging Discoveries in Microbiology, held at Convention Center, Jawaharlal Nehru University, New Delhi, Dec 7-10, 2015.

**Faculty Strength** Permanent; 74 + Principal; Temporary: 02; Ad-hoc: 39

### Financial Allocation and Utilisation

Grant Sanctioned (in Rs.): 26,73,73,484/-

Grant Utilised (in Rs.) : 22,34,58,410/-

### Placement Details

- |   |           |
|---|-----------|
| (a) Number of Students getting Successful Placements:             | <b>68</b> |
| (b) Number of Companies/Industries coming for Campus Recruitment: | <b>07</b> |
| (c) Number of Repeat Recruiters:                                  | <b>03</b> |

**Pagmadulam Baldorj** from Mongolia (Research Training Fellowship for Developing Country Scientists (RTF-DCS) Trainee) sponsored by Centre for Science & Technology of Non-Aligned and Other Developing Countries (NAM S&T Centre), working on project 'Molecular biodiversity of microorganisms isolated from Mongolia and screening for effective and industrially important strains' in Zoology Department, ANDC, under the mentorship of Dr. Monisha Khanna. (Jan 2016 – Jul 2016).

### Journals Subscribed

- (a) Number of International Journals Subscribed (Online + Paperback version):
- (i) Subscribed to Journals available through Inflightnet.
  - (ii) Access to various journals through DU Intranet
- (b) Number of National Journals Subscribed (Online + Paperback version): **02** new journals Journal of Bioscience and Sadhana (Engineering Journal) in addition to 25 existing ones.

### Other Significant Information

Ten faculty members viz. Dr. Monisha Khanna, Dr. Sarita Kumar, Dr. Urmi Bajpai, Dr. Sunita Hooda, Dr. Amit Garg, Dr. Udaibir Singh, Dr. Sharanjit Kaur, Dr. Vibha Gaur, Dr. Seema Makhija and Dr. Gagan Dhawan are recognized Ph.D. research supervisors from University of Delhi. One Post-doctoral fellow and Ten Ph.D. research scholars are currently enrolled in ANDC in five different departments. The college offers 'ELITE Scheme' (Education in a Lively Innovative Training Environment) in which ANDC students undertake short research projects

during summer vacations (two months). They are provided with a fellowship of Rs. 1,000/- per month by the college. In this year, 94 undergraduate students did the summer research projects. This year seven ANDC faculty members authored text books/contributed chapters in books/reviewed text books, three faculty members uploaded educational e-content on web and seven faculty members were resource persons in workshops dealing with review and update of syllabi, school text books by NCERT and Teachers training workshops. The college continues to be an affiliate of Creative Commons in India, has an active SPIE (Society of Photo-Optical Instrumentation Engineers, USA) Students' Chapter and continues to be the Delhi Node of the National Network of Mathematical and Computational Biology (NNMCB) funded by the Science and Engineering Research Board, Government of India.

## ADITI MAHAVIDYALAYA

### Major Activities and Achievements

A new block of two storey's was constructed inside the college which gave six new rooms, a big hall for meetings and conferences. Also, a medical room with basic medicines, a bed and first-aid facilities was inaugurated on October 1, 2015. The college infrastructure is improving fast as the college received a grant of Rs.55 lakhs from the V.C. fund for the renovation of college hall and setting up of a journalism studio.

### Outstanding Honours/Distinctions

Dr. Neelam Rathi (Hindi Department) won the prestigious award "*Shahitya Sarita Samman*" in the international conference *Hindi Bhasaka Vaishvik Prasara* organised by Vishwa Hindi Sahitya Parishad and *Katha* (U.K) , London on 15 June, 2015.

Dr. Ritu Sharma (Psychology Department) was granted partial scholarship from International Institute on Ageing, United Nations-Malta for International Training Programme on "Health Promotion, Quality of Life and Wellbeing" held at Malta from 4<sup>th</sup> to 15<sup>th</sup> May, 2015

### Research Projects

*Enhancing Income Generation Skills of Rural Population of Delhi*, Innovation Project AM- 301, funded by University of Delhi for one year.

Amount sanctioned is Rs. 3 Lakhs.

*Development of an Educational Program to enhance Food Label Understanding among Early Adolescents: Peri-Urban Delhi*, innovation project AM302, funded by University of Delhi for one year. Amount sanctioned: Rs. 4 Lakhs.

*Psychological, Commercial, and Legal Fight of Aged Consumers : A Self-Help Group Technique*, Innovation project AM303, funded by University of Delhi for one year. Amount sanctioned :Rs. 3Lakhs.

*Hindi Rangmanch ke Vikas me Mahilaon ka Yogdan*.UGC Major Research Project funded for three years. Amount sanctioned: Rs. 11 Lakhs (Approx.)

### Students with Distinctions

Ms. Preeti, student of B.A. (Hons.) Political Science III year was selected in Judo Team for participation in Junior Common Wealth games, 2015-2016

### Library Development

A new reading room and a new library room was built. Ten computers were installed and about six hundred books were added.

## **Publications**

Rathi, Neelam, (October-December 2015). “*Rambada Bah Gaya.*” *E-magazine Amstel Ganga*, Amsterdam (Holland), ISSN-2213-7351.

August-October,2015. *Hindi ka Prachar –Prasaur Devnagri Lipika Mahattv.***Shodh Ritu**,,ISSN-2454-6283, , 58-60.

Gupta, Rashmi (2015). *Yoga and Pranayama Exercise*, Aryan publication, ISBN No.- 978-93-83913-39-8, Delhi .

Sawshilya, Archana. “*Prashashan ke Sidhant in Lok Prashashan: Siddhant Avam Vyavhar*”, ed Yadav, Sushma, and Gautam, Orient Blackswan Private Limited, Hyderabad ISBN; 978 81 250 59479.

Sehrawat, Promila (February 2015).*Role of self Help Groups: Through Micro-finance for Poverty Alleviation in India, Microfinance and Micro Entrepreneurship: A Paradigm Shift for Societal Development* ed. SurenderMor, Vista International Publishing House, ISBN No-978-93-83905-94-2.

--(2015).*A Study of Indian Economy*, Marks Books Publishing House, ISBN NO: - 978-93-83131-, 9-18.

Julka, A and Richa (2015).*Including Children with Special Needs: Upper Primary Grade*, National Council of Educational Training and Research. New Delhi. ISBN: 9789350073322.

Wadhwanee Dabas (2015).Manisha. “Exploration of Mathematics Learning of Schools in Delhi ” , *Episteme -6*, Tata Institute of Fundamental Research, Mumbai. ISBN 978-93-85523-48-9,67-75.

Sharma, Mamta (2015) .“Cheminformatics; A Modern Tool in Drug”, *International J Scientific Research & Development*, ISSN-2321-0613.

Sharma, R. &Dey, A.B. (2015).Healthy Aging - A social responsibility. Central Asian Journal of Medical Sciences and Education, Vol 1(1) (October –December 2015). ISSN 2412-3684.

## **Conferences organized/ Papers presented**

Dr. Asha Sharma, Asstt. Prof., Hindi Dept. presented the paper “*Gyanranjanki Kahaniyonmein Nihit Antardrishti*” in the international seminar titled *Swatantrottar Kahani: Rachnatmak Sarokaronki Padtal* organised at PGDAV(E) College, University of Delhi on March 18 and 19, 2016.

Dr. Neelam Rathi Associate. Prof., Hindi Dept. presented the paper “*Devnagri Lipi ka Bhavishya*” in international seminar, organised by *Vashevik Hindi Sahitya Parishad*, London (U.K.) on June 15, 2015.

Dr. Punyatoya Patra, Associate Prof., Geography Dept .presented the paper “*Landslides in the Jammu and Kashmir: A Geographical Analysis*” at 9<sup>th</sup> International Geographical Union Conference on Land use Change, Climate Extremes and Disaster Risk Reduction organised by Department of Geography, Shaheed Bhagat Singh College, University of Delhi on March 20, 2016.

Dr. Suniti Datta, Associate Prof., Music Dept. presented the paper “*Changing Scenario on Performance Practices in Indian Music*” in a national seminar organised by Faculty of Music and Fine Arts, University of Delhi from March 15 to 16, 2016.

**Faculty Strength** Permanent Faculty: 59;Ad-hoc: 47;

**Financial Allocation and Utilization**

- (a) Grant sanction in Rs.: 17.23 Crore
- (b) Utilized in Rs.: 14.69 Crore

**Placement details**

- (a) Number of students getting successful placements : 68
- (b) Number of Companies/Industries coming for campus recruitment: 14
- (c) Number of repeat recruiters: 2

**Journals subscribed**

Number of National journals subscribed: 1

**Other significant information**

The College solved the major and long-standing problem of lack of drinking water through installation of industrial R.O. this year. The College App of Aditi Mahavidyalaya was also launched.

## **AHILYA BAI COLLEGE OF NURSING**

**Major Activities and Achievements**

Ahilya Bai College of Nursing Lok Nayak Hospital was upgraded from school of nursing to college nursing in 1993 with intake of 25 students this was increased to 39. At present we are planning to take 75 students per year. Some of the posts have already being sanctioned. We have enough infrastructures to accommodate the students. Proposal is sent to start M.Sc. Nursing programme from the year 2016. This year admission of students for the year 2016-17 took place on-line. Mrs. Ellen Beck and Mrs. Nutan are selected as core committee members for skill development centre Lok Nayak hospital. Results of students every year is between 98% to 100 %. Our college is selected by IGNOU as centre of post basic B.Sc. Nursing Programme. The three years course is running since 2009. Mrs. Ellen Beck is new P/C for IGNOU. Our students are participating in State and National Level competition. They are also participating in Health Mela organized by centre and state level. In the year 2013-2014 our students have won several prizes in Health Mela organized by MTNL. They are contributing in health check up also. World Mental Health Day was celebrated on 10<sup>th</sup> October by interns in Govind Balabh Pant Hospital. Interns also participated in workshop on Hemophilia on 12<sup>th</sup> November 2016.

## **AMAR JYOTI INSTITUTE OF PHYSIOTHERAPY**

**Major Activities and Achievements**

Amar Jyoti Institute of Physiotherapy in its mission to provide education of the highest standards continues to grow every year and is now a renowned centre for undergraduate Physiotherapy education in India. In addition to excellent education, the Institute also caters to around 80-100 patients a day in its specialty clinics - Musculoskeletal & Sports Physiotherapy, Paediatric and Adult Neurological Physiotherapy, Women's Physiotherapy Clinic, Obesity clinic, Falls Prevention Clinic and Vestibular Rehabilitation Clinic. The usage of latest technology diagnostic tools such as Electro goniometry, Bubble Inclinator and the modalities like Spirometer, Complete Electrotherapy unit has added value to the existing clinical setting.

**Outstanding Honours/ Distinction**

Dr. Jeyanthi.S (PT), Assistant Professor, received best paper award in paper presentation titled "Role of Neuro Linguistic Programming – A Physiotherapy perspective" organized by AIIMS Neuraxis 2015.

### Research Projects

There are 3 research projects currently ongoing at the Institute.

Dr. Jeyanthi.S (PT), Dr. Raju K. Parasher. Funding agency: Self ; Year/Period: 2016-17; Title:Evaluating physical fitness and motor skills in elementary school children with attention deficit hyperactive disorder- A Pilot study; Amount sanctioned: Nil.

Dr. Prerna Mohan Saxena (PT), Dr. Raju K. Parasher. Funding agency: Self ; Year/Period: 2016-17; Title: Fitness in children with hearing impairment; Amount sanctioned: Nil.

Dr. Sampada Jahagirdar (PT), Dr. Raju. K. Parasher. Funding agency: Self ; Year/Period: 2016-17; Title:Body weight support treadmill training for adults with knee osteoarthritis: A Case study; Amount sanctioned: Nil.

### Students with distinctions

The students excelled in the University examination held in June- July 2015. There were 55 subject wise distinctions and 5 students received overall distinctions.

Name of Student	Year	Position in University
Ms. Pinky Masih	1 <sup>st</sup> Year	2 <sup>nd</sup>
Ms. Harithma Wadhwa	2 <sup>nd</sup> Year	1 <sup>st</sup>
Ms. Geetanjali Chawla	2 <sup>nd</sup> Year	2 <sup>nd</sup>
Ms. Preksha Sharma	3 <sup>rd</sup> Year	1 <sup>st</sup>
Ms. Divya	Overall (4 <sup>1/2</sup> year)	1 <sup>st</sup>

### Library Development

a. Total budget	:	Overall - Rs. 2,77,436 .00
b. Number of books added	:	75
c. Physiotherapy related Journals subscribed to	:	6

### Publications

Schupak, BM, Parasher, RK, Zipp GP.(2016). Reliability of Electro dermal activity: Quantifying sensory processing in children with Autism. *American Journal of Occupational Therapy*, 70(6).

A Poster was presented on “The effect of dual tasking on walking over even & uneven surfaces in functionally independent community older adults”. APTA combined sections meeting, Indianapolis, IN, USA 2015.

A Poster was presented on “Factor that contribute to parent-child interaction of pre-term infants in neo-natal intensive care units. APTA combined sections meeting, Indianapolis, IN, USA 2015.

Jeyanthi, S. (2015, April-June) The Effect of Nerve Branch Stimulation In Adjunct to Conventional Treatment On C6-C7 Obsteric Brachial Plexus Injury: A Case Report. *Indian Journal of Physiotherapy & Occupational therapy*, 9 (2),150-155.

Jeyanthi, S. and Narkeesh, A. (2015 June). Effectiveness of cranio-cervical training over myofascial pain syndrome: A case study”. *International Journal of Physiotherapy and Research*, 3(3),1032-36.

Sadbhawna, D., Shefali, G., Jeyanthi, S and Narkeesh, A. (2016, Jan). Learning style preferences among physiotherapy undergraduate students in Punjabi University. *International Journal of Current Research*, 8 (1),25404-25409.

Richa, M., Chitra, K., Kshitija, B. (2015, Dec). To compare the effect of Muscle energy technique and static stretching on neck disability index. *International Journal of Current Research*, 7(12), 24806-10.

### **Conferences organised/Papers Presented**

A Lecture and interactive session on “Expanding horizons- The Challenges of Future Entry Level Physiotherapy Education” by *Professor Gillian Webb, Chair, WCPT- AWP Region*, was organized by the Academy of Indian Physiotherapists in collaboration with Amar Jyoti Institute of Physiotherapy on Friday, August 7, 2015. A group of around 40 academicians and clinicians of Physiotherapy professionals from various Institutes and Hospitals in and around Delhi-NCR attended this unique event.

A One day hands on workshop on Mulligan Concept, Spinal Segmental Assessment& Treatment” by Dr. Deepak Kumar, PhD, MPT (Sports), Capri Institute of Manual therapy was conducted on 27<sup>th</sup> August 2015.

A two days Hands on work shop on Bands, Balls & Balance” was conducted on 12<sup>th</sup>& 13<sup>th</sup> September 2015 by Dr. Arti Prasad (PT), certified thera-band Instructor, Bangalore.

The Institute organized a Guest lecture on “Neuromuscular Control with Focus on Low back pain” and “Patello-femoral Pain Syndrome” By Ms. Anneette Jorgensen, and Dr. Hemant Juneja Senoir Lecturer, University of Zealand, Denmark on 20<sup>th</sup> and 24<sup>th</sup> November 2015.

A one day workshop on “Cardiac Rehabilitation” was organized by Dr. Asawari Page (PT), Consultant, Deenanath Mangeshkar Hospital, Pune on 6<sup>th</sup> February 2016

**Faculty Strength** Permanent: 7; Contractual: 3

### **Extension and outreach work**

- (a) Number of camps organised in the surrounding areas - 11 camps
- (b) Number of people enrolled/covered in the camps - 60 to 70 Patients
- (c) Number of students who worked in the camps - 6 Students in each camp.
- (d) Total number of hours dedicated to these camps – 4 to 5 Hours for each camp.

### **Journals subscribed**

- (a) Number of International journal subscribed(online + paperback version) - 4
- (b) Number of National journal subscribed(online + paperback version) - 3

### **Other significant information**

Our fourth year students presented poster at World Federation for Neuro Rehabilitation & Indian Head Injury Foundation held on 27<sup>th</sup>-28<sup>th</sup> November 2015

Mr. Ashish Jain & Ms. Priyanka Chauhan presented poster on Traumatic Brain Injury : Causes and Prevalence. Ms. Megha Goel and Ms. Vijayalakshmi presented poster on Spinal Cord Injury : Acute Care Management. These two posters received great appreciation by the judges.

ITS College, Ghaziabad organized inter college competition on 4<sup>th</sup> & 5<sup>th</sup> Dec, where our students received cash prizes in various events

1<sup>st</sup> prize in Face Painting Competition to Ms. Preksha & Ms. Ritika

1<sup>st</sup> prize in Mad Art Show to Mr. Ashish, Mr. Rahul, Ms. Ritika, Ms. Preksha

3<sup>rd</sup> prize in Rangoli making competition to Mr. Rahul & Ms. Preksha

Sardar Bhagwan Singh post graduate institute of Biomedical sciences & research, Balawala, Dehradun organized Sardar Gurcharan Singh Memorial 9<sup>th</sup> National debate competition on 7<sup>th</sup> & 8<sup>th</sup> February 2015 in which around 50 colleges participated. The topic of debate was “Make in India campaign: An obsession towards Indian supremacy in global economy”. Ms. Shivangi Sharma (3<sup>rd</sup> year), Ms. Sparsh Jain (3<sup>rd</sup> year), Mr. Digvijay Singh (2<sup>nd</sup> year), Ms. Shreya Vashist (1<sup>st</sup> year) participated & Mr. Digvijay Singh (2<sup>nd</sup> year) received consolation Prize.

Dyal Singh college organised a debate competition on 2<sup>nd</sup> March 2016. Almost 50 colleges in & around Delhi participated in this competition. The topic of debate was “Mahilayon par badhte huye atyachar ka kaarn kaarun kamjorinhi, samaajik chetna ka abhvh hai”. Ms. Shivangi Sharma (3<sup>rd</sup> year) & Mr. Digvijay Singh (2<sup>nd</sup> year) participated & Ms. Shivangi Sharma had been awarded “Pratsahan Award” by Deputy Governor of Delhi.

## ARYABHATTA COLLEGE

### Major Activities and Achievements

From the Academic Session 2015-16, the College became a full-fledged Day college with its own independent academic block. After provisioning for the classrooms and the staff room, a Seminar Room and a new Computer Lab and a reading hall have also been created. Renovation and remodeling of a part of the existing administrative building and a store room was started in December, 2015 and the college is ready to cater from the Students’ Dealing Office from the next academic session. Expansion of infrastructure is in full swing. SPS Block Part-B which will consist of 10 classrooms, a two-storey library and a two-storey canteen is expected to be ready from next academic session. After many years of hard-work, the college has got sanction from the DDA to construct New Academic and Administrative Blocks and the work on this project will start soon. During the year the college also got approval from the University to start four new honours courses – History, Mathematics, Computer Science and Psychology.

### Outstanding Honours / Distinctions

The College Men’s team won the Taekwondo Inter-College Championship organized by DUSC. The College Cricket Team was runners-up in the Inter-college Cricket Championship and being retained by the College for the last decade. Six players from the College were selected to represent Delhi University Cricket Team to participate in the North Zone Inter-University Championship organized by Aligarh Muslim University and finished as Runners-up.

The College team won Adidas Cup Cricket T-20 Tournament by prevailing over Jamia Millia University in January, 2016. The College sent a team of 9 players as part of the 15 members team from the University of Delhi. The team won the KIIT trophy for the year 2015-16. This tournament had not only the participation of teams from Indian Universities but also teams from Bangladesh and Nepal.

### Research Projects

Real Time Monitoring of Malnutrition Using Android Application funded by the University of Delhi. Amount Sanctioned is Rs. 3.1 Lacs



### **Students with Distinctions**

Manisha Dhingra; VI Sem. BA (Hons) Hindi	:	76.5%
Bal Krishna; II Sem. BA(Hons.) Hindi	:	76.2%
Vivek Anand, II Sem. BA Prog.	:	76%

Four students from our College were selected and out of them, 3 were part of the playing 11 and contributed successfully to the team's effort in winning the prestigious Vizzy Trophy for the first time at Jamia Millia Islamia's ground and that too by chasing a target of 603 runs set by the last year's winner: West Zone. This championship is organized by the Board of Cricket in India.

### **Library Development**

As the current Reading Room for the students being Small, a new Reading Room with computer and internet facilities has been constructed above the Library (on the first floor) with seating capacity of around 100 students. Besides, one reading room for teachers with seating capacity of around 20 has also been constructed above the Library (on the first floor).

### **Publications**

Pardeep Rai and Dharam Kumar (2016), Eds., Libraries and Librarianship in 21<sup>st</sup> Century, New Delhi, Bookage Publications, ISBN: 978-93-83281-93-0.

Dayal, Rajendra (2016), Constitutional Democracy in India: Institutions at Work, New Delhi: Bookage Publications.

### **Conferences Organized/ Papers Presented**

Enriching NLP Resources for Resource Poor Indian Languages with Special Focus on Sindhi Language on 19 February, 2016 funded by National Council for promotion of Sindhi Language.

Narratives of Stereotypes in Text and Performance (Organised by Department of English) on 4-5 March, 2016 funded by UGC.

Political Leadership in Independent India: Challenges and Emerging Issues (Organised by Department of Political Science) on 10-11 March, 2016 funded by UGC.

Satta, Sanskritiavam Sahityik Bhakti Andolan Se Aaj Tak (Organised by Department of Hindi) on 14-1 on 5 March, 2016 funded by UGC.

**Faculty Strength** Permanent:58; Adhoc: 13

### **Financial Allocation and Utilization**

(a) Grant sanction of Rs. 20,33,12,760

(b) Utilized in Rs. 11,26,01,643

### **Placement details**

(a) Number of students getting successful placements : 09

(b) Number of Companies/Industries coming for campus recruitment : 06

### **Journals subscribed**

(a) Number of international journals subscribed (online + paper back version)

(b) Number of National journals subscribed (online + paper back version)

Number of books added to the Library collection	:	1827
Total No. of books and documents in the Library	:	45290
National Print Journals Subscribed	:	22
International Journals Subscribed	:	04

The Library provided its users access to 5000 online Journals and 98000 books through N-List programme of INFLIBNET

## **ATMA RAM SANATAN DHARMA COLLEGE**

### **Major Activities and Achievements**

With the establishment of the Centre for Innovation and Entrepreneurial Leadership (CIEL) with support from Ministry of Micro, Small and Medium Enterprises (M/o MSME), GoI, Atma Ram Sanatan Dharma College has become the first college under the University of Delhi to have a Technology Business Incubator on its premises. In the first call of proposals this year, nearly 40 proposals were received and 15 of them were cleared and recommended for grant to the Ministry.

Atma Ram Sanatan Dharma College has been awarded funding under the STAR COLLEGE scheme launched by the Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India. ARSD College was granted a sum of Rs. 1.95 crore for 7 innovation projects under the University of Delhi Star Innovation Project Scheme, the largest grant for any University college. In 2015-16, the University of Delhi has awarded eleven Innovation Projects to the College.

The North-East Welfare Committee of ARSD College organized the 2<sup>nd</sup> 'Rainbow Fest' on 10 February 2016. The event highlighted the diverse cultures of the North East. Rangayan, the Dramatics Society of ARSD College, organized its 2nd three-day theatre festival, "Rangsheersh Jaidev Natyotsav" in honour of acclaimed Hindi drama critic, Dr. Jaidev Taneja from 11 to 13 January, 2016. The College observed days of national significance, including the celebration of Constitution Day, National Youth Day (with Prafulla Ketkar as the chief guest), and the 140<sup>th</sup> birth anniversary of Sardar Vallabhbhai Patel as National Unity Day (where the chief guest was Dr. Shiv Shakti Nath Bakshi).

The Equal Opportunity Cell organized a sensitization workshop on "Social Exclusion" on 9th February 2016, which was addressed by Prof. Manoj Kumar Jha, Head, Department of Social Work, University of Delhi and Mr. Dilip C. Mandal, ex-Managing Editor, *India Today*.

The Women Development Cell organized a Gender Sensitization Workshop on 28 October 2015. The panel was composed of Dr. Charu Wali Khanna, former member, National Commission for Women and Advocate, Supreme Court of India, Sumedha Dwivedi, SSP, National Human Rights Commission, and Abha Kumar, General Secretary, Healing India, an NGO dedicated to the empowerment of women. The Fine Arts and Crafts Society, Arteysania, organized four workshopson calligraphy, candle-making, quilling art and coffee painting. The Film Appreciation Society organized a one-day seminar on Virtual Literacy and Cinematic Texts on 17 February, 2016. Under the banner of Popular Lecture Series, the college organized two talks. The first talk was delivered by Professor Vivek Kumar, JNU on "Nation Builder Baba Sahib Bhim Rao Ambedkar on 8<sup>th</sup> October, 2015. The theme of the next talk was "General Awareness and Public Health" delivered by Padma Shri Dr. K. K. Agarwal on 14<sup>th</sup> March, 2016

In March 2016, Nimbus, the English Debating Society, organized its first ever Inter-College Debate competition where over 40 students from various colleges of the University participated. The debate was titled, "Odd Even Policy is an Odd way to Even out Pollution Problems."

### **Outstanding Honours/Distinctions**

Under its Star Innovation Project scheme, the University of Delhi has awarded ARSD College a sum of Rs. 1.95 crore for 7 innovation projects, the largest grant for any University college.

ARSD College participated in the 58th Annual Flower Show of the University of Delhi, North Campus in 2016. The College was awarded with a "Highly Commended" certificate in the fern exhibit. Our lawns and garden received good appreciation from the judges, especially the herbal garden. The herbal garden was applauded for its well-grown, fresh and varied flavours of medicinal plants as well as their wide variety.

Dr. Jyothsnaphanija Bolla was awarded the Satyasri Sahiti Puraskar, 2015.

Mr. Gautam Choubey was acknowledged as the best paper presenter at the UGC National Conference on "The Indian Vernacular: Languages, Literatures and Histories" held during September 7<sup>th</sup>-9<sup>th</sup> 2015, Dept. of English, University of Delhi for the paper entitled "Between the Movements: Hindi Public Sphere in the 1930s."

Dr. Jaspali Chauhan was the recipient of Mother Teresa Gaurav Award on the occasion of International Women's Day by Pray For India for her outstanding contribution towards the society

### **Research Projects**

Department of Science and Technology (DST), Feb-2015-2019, "Design and Strategic Synthesis of some Novel Marine Natural Products of Biological Importance", 43 Lakhs, Dr. Sunita Bhagat.

Indian Council of Medical Research (ICMR), Nov-2013-2017, "Design and Synthesis of Natural products isolated from E. Jambolana and its structural analogs for assessment of their antidiabetic potential in STZ induced diabetic rats", 54 lakhs, Dr. Sunita Bhagat.

University Grants Commission (UGC), "Synthesis and Characterisation studies of some single source molecular precursors of Al(III), V (V), Ti (IV) and related metals for the preparation of ceramic materials", 2013-2017, 13.7Lacs, Dr. Rajeev Singh.

### **Students with Distinctions**

Chhaya Choudhary	B.Sc. (H) Maths IIIrd	93.62
Anshika	B. Sc. (H) C.S. IIIrd	91.01
Monika	B.Sc. (H) Maths IIIrd	90.73
Lakshya Sethi	B.Sc. (H) C.S. IIIrd	90.18
Bhawna Chauhan	B.Sc. (H) Chemistry IIIrd	89.30

### **Library Development**

The library has over 1,07,000 books out of which about 45,936 are textbooks. It subscribes to 46 journals, 19 newspapers and 29 magazines Using mezzanine slabs, an additional space of 177 sq.mts. has been developed towards reading space for teachers and to add more stacks to the library.

### **Publications**

Bhagat,S., Chakrabort, S. M. , Singh, C.T., Mohapatra, S. C.,Baweja, S. , Nandanwar, S. U. (2015). Synthesis, Spectral and Thermo analytical Studies of Nickel (II) and Ruthenium (II) Complexes of Schiff Base Ligands for Hydrogenation of Benzene, *Current Catalysis*4 , 43-56.

Singh,P.(2015) ORGANOTIN BIS-COMPLEXES: Synthesis, Characterization, antimicrobial activity and Anticancer (computational) studies, *International Journal of Advanced Research*, 2320-5407.

Kumar, A., Tateyama, S., Yasaki, K., Ali ,M.A., Takaya, N., Singh,R., Kaneko, T.. (2016). 1 H NMR and FT-IR dataset based structural investigation of poly (amic acid) s and polyimides from 4, 4'-diaminostilbene, *Data in Brief* ,7 ,123-128.

Singla, M., Ranjan, R.,Mahiya, K., Mohapatra ,S.C., Ahmad, S., (2015). Nitric oxide inhibition, antioxidant and antitumor activities of novel Copper (II) Bis-benzimidazole diamide nano-cordination complexes, *New J. Chem.(RSC)*, 39,4316-4327.

Parveen, Bhattacharya, M., Jogi, J.(2015).Modelling of InAlAs/InGaAs/InAlAs DG-HEMT Mixer for Microwave Application, *International Organization of Scientific Research, Journal of Electronics and Communication Engineering (IOSR-JECE)*, 10(4) 20-29.

Bolla,J(2015, August) “Interpreting Disability and Art: Stereotypes of Aesthetics” in Café Dissensus in. <http://cafedissensus.com/2015/08/14/interpreting-disability-and-art-stereotypes-of-aesthetics/>.

Jha,G.(2015), *Bhashaki Rajneetiaur Rrashtriya Ashmita*, New Delhi: Sasta Sahitya Mandal.

Bhagel, S.S.(2015) ,*Social Media And Indian Youth*, Delhi: Apple Books.

Prasad, A.(2015).Identity Conflicts and Citizenship Laws in South Asia: The Case of Bhutan and Sri Lanka . *The Journal of Social Science Scholar*, Volume-II, Number -IV, ISSN 2321-8266.

Kumar, V. (2015) .Bhoojanka Adhikar: Abhay Prasad Singh (ed), Samkalin Bharat me Vikas Prakriya Evam Samajik Andolan, New Delhi: *Orient Blackswan*, (ISBN 978 81 250 59448).

### **Conferences organized/Papers presented**

Sunita Bhagat ,“Expedition of Microwave Assisted Multicomponent Reactions for the Synthesis of Trisubstituted Imidazoles using Nickel Catalyst”, 26-27<sup>th</sup> Feb.2016., DU-JAIST Indo-Japan Chemistry of Functional Molecules/Materials, University of Delhi.

Subash Chndra Mohapatra, “Size and co-anion dependent nano graphene functionalized by transition metals”, 7-8 April.2016, National conference, NCC-2016 on Enviromental & Harmonious Development, Shyam Lal College, University Of Delhi, India International centre.

Rajeev Singh, “Photo-Functional Semi Bio-Based Polyimides with High Performance From 4-Aminocinnamic Acid”, 2015 , 3<sup>rd</sup> National Conference on Nanoscience and Instrumentation Technology, NCNIT-2015, National Institute of Technology, Kurukshetra, Haryana, India.

Vishwa Mohan Jha ,“Reconstruction of Communal Identities in the Historiography of Early India”, on 29 July, 2015 , at the International Conference on History Teaching across the Subcontinent, organised by Seagull Foundation, Kolkata.

Indra Mohan Jha, “Emerging Challenges of Terrorism in South Asia”, 25-27 October 2015, 56th All India Political Science Conference, , BHU, Varanasi.

Amit Singh, "The South China Sea Dispute: Policy Options for India and Australia", November 26-27, 2015, in the International Conference on 'India-Australia Relations and Evolving Poly-centric World Order, organised by Australian Studies Programme, School of Social Sciences, IGNOU, New Delhi, Macquarie University, Sydney, Australia & Central University of Kerala, Kasaragod.

**Faculty Strength** Permanent: 140; Adhoc: 50

**Financial allocation and Utilization**

Grant sanction - Rs. 3389.29 lakhs

Utilized - Rs. 3189.08 lakhs

**Patents Filed/Granted**

Number and title of national patents: 10

Title of Patents:

Polymer Alloy (Extrusion Blending), Prakash Singh and Sunita Bhagat, I.P. Appl. No. 905/DEL/91 dated 25 September 1991.

Polymer Alloy (Melt Blending), Prakash Singh and Sunita Bhagat, I.P. Appl. No. 906/DEL/91 dated 25 September 1991.

Polymer Alloy (Solution Blending), Prakash Singh, Sunita Bhagat and Madhumita Saroop, I.P. Appl. No. 907/DEL/91 dated 25 September 1991.

Polymer Alloy Nucleating agent<sup>12</sup>, I.P. Appl. No. 214/DEL/93.

Polymer Alloy (Mineral filler), Prakash Singh, S.K. Sharma and Sunita Bhagat; I.P. Appl. No. 214/DEL/93.

Polymer Alloy (Glass Fibre), Prakash Singh and Sunita Bhagat; I.P. Appl. No. 1151/DEL/91.

Polymer Alloy (Ethyl vinyl acetate copolymer), Prakash Singh and Sunita Bhagat, I.P. Appl. No. 179/DEL/92.

Polymer Alloy (Sawdust), Prakash Singh and Sunita Bhagat, I.P. Appl. No. 180/DEL/92.

Polymer Alloy (Plasticizer), Prakash Singh and Sunita Bhagat, I.P. Appl. No. 181/DEL/92.

Polymer Alloy (Acrylates/polyolefins), Prakash Singh and Sunita Bhagat, I.P. Appl. No. 182/DEL/92.

**Placement details**

Number of students getting successful placements: 108

Number of Companies/Industries coming for campus recruitment: 06

Number of repeat recruiters: 01

**Number and Name of Domestic/International(MoUs) signed with partners**

With Indian/Foreign Companies/Industry:03

**Journals subscribed**

(a) Number of international Journals subscribed (online + paper back version):

Through INFLIBMENT 'N' list 6000 National and International journals are available  
(b) Number of national Journals subscribed (online + paper back version): 45 Paperback

### **Other significant information**

In the current academic year, the institution has made efforts to extend student-faculty interaction beyond the classroom. A mentorship programme has been initiated to ensure that the process of learning is not restricted to the classroom. Every teacher is assigned the mentorship of a few students and looks after their academic as well as personal well-being.

Additionally, a Student-Faculty Committee for every Department has been constituted in order to keep the dialogic space between preceptors and students open and facilitate discussion on student concerns, complaints, and feedback. The forum comprises of four Faculty members and academic toppers from each class for every Department. Apart from taking on board issues faced by the student body, the Committee will also focus on innovation in academic, pedagogical and cultural activities of the College.

## **A AND U TIBBIA COLLEGE**

### **Major Activities and Achievements**

As this college is completing its 100 Years hence Institute is celebrating Centenary Year. College has Celebrated International Yoga Day on 21<sup>st</sup> June with all the faculty members and Director AYUSH. College has constructed New Girls' hostel. A and U Tibbia College has organized 6 day CME in the Dept of Samhita Siddhant for teachers where faculties from all over India participated. Institute has renovated the OPD block fully air-conditioned for patients

**Library Development** Order is placed for new books

### **Publications**

Rajan ,S. et al (2015). Amalaki as preventing premature aging drug-a review: *IJAPR.3(12)*, 30-31

Kousar, F.(2015).Contribution of Zahrawi(Albucases) in obstetrics and gynecology: *Review and research journal of Unani Siddha and Homeopathy,2(2)*,18-21

Mishra,D.(2015).Practical problems during pregnancy and their management: An Ayurvedic Approach.*Proceedings of National Conference of Kaumarbhryta,The Renaissance-2015,12-14*

Nasir,A.(2015).Amal-e-kai-A precious treasure in Unani Medicine: *Indian Journal of unani Medicine,8(1)*,21-26

Mohapatra,S. et al.(2015).Corolary of processings of metals and minerals in Ayurvedic System of Medicine:*International Journal of Ayurveda and Medical Sciences,1(1)*,14-18

Moharana,H.(2015).A role of Netratarpan with Triphala Ghrita in dry eye-A clinic-pathological evolution: *STM Journal of AYUSH, 4(3)*

Jain,T.,Sharma,A.,Yadav,S.(2015).Analytical study on Vicharchika:*Punarnav,3(2)*,1-2

Shamkuwar,M. Rajan S.,Singhai, S. (2016). Applied approach of Virechan karma in Tamak Shwasa: *ijpaam,1(1)*,55-59

Jindal,N. (2015).*Panchakarma Siddhi*.Varanasi, UP: Chowkhamba Orientalia.

Shamkuwar, M .(2016 Edi II).*Panchakarma Sangrah*, Nagpur, Maharashtra: Self

### **Conferences organized/ Papers presented**

Organised CME in Samhita Siddhant 5<sup>th</sup> -10<sup>th</sup> Oct 2015, AYUSH, Govt of India

Kausar,F. Muscular dystrophy an approach with Ilaj-bil-tadbeer, 20-22 Aug 2015, AYUSH, Govt of India

Nasir,A. Jarhat ke Do Urdu Tarjim, 19-20 feb 2016, Jamia Millia Islamia,& Dept of Urdu

### **Number of faculty Permanent/ Temporary/ Ad-hoc**

Permanent : Ayurved (18) , Unani (6)

Temporary : Ayurved (12), Unani (12)

Ad-hoc : Ayurved (3), Unani (2)

### **Financial Allocation and Utilization**

Grant sanction in Rs. Non Plan- Rs 20,24,00,000 Plan- Rs 6,49,00,000

Utilized in Rs. Non Plan- Rs 19,84,76,072 Plan- Rs 6,47,61,715

## **BHAGINI NIVEDITA COLLEGE**

### **Major Activities and Achievements**

The orientation programme for the session 2015-16 was organized on July 20-21, 2015. The Freshers' Welcome Party was organized on 31<sup>st</sup> August 2015. Election to the Students' Union was held on September 11, 2015. A three days and four night's educational trip to Jodhpur and Jaisalmer on December 15, 2015. The NAAC Peer Team visited the college during 10-12 August 2015. The grade of the College was released in the NAAC meeting held on 14<sup>th</sup> September 2015. The college has been accredited with 'B' Grade. A two-days "Entrepreneurship Awareness Camp" in collaboration with Acharya Narendra Dev College was organized. NSS students participated in 'Run for Unity' on 31<sup>st</sup> October 2015 at India Gate. Students also participated in the Blood Donation Camp on 15<sup>th</sup> January 2016 in Rao Tula Ram Hospital, Jaffarpur. A workshop promoting HIMMAT APP was conducted on 29<sup>th</sup> February 2016 by a self-funded NGO, 'Ek Kaam Desh Ke Naam' in association with Delhi Police. Annual Sports Meet was organized on 16<sup>th</sup> – 18<sup>th</sup> February 2016. The Cultural Committee organized annual intra and inter-college cultural festival 'Navrang' from 1<sup>st</sup> – 3<sup>rd</sup> March 2016. A seminar was organized to commemorate the 125<sup>th</sup> Birth Anniversary of Dr. B.R. Ambedkar on the topic "Preamble of India Constitution". A trip to IUAC was organized by Physics Department on 'National Science Day'. A trip to SMC Global Securities Pvt. Ltd and Parle G Factory was organized by Commerce Department. Mathematics Society took member students for a visit to Nehru Planetarium. Annual day of the College was organized on 25<sup>th</sup> April 2016.

### **Library Development**

The total number of books added during the current year is 2041. The library committee changed the seating arrangement in the library to create space and to allow in more light and air. It has set up an audio - visual section and placed order for DVDs. The computer and internet facilities are now available to the teachers, students and the library staff within the library itself. The work of manual catalogues was updated. On the demand of the students, CCTV camera was installed. The purchase associates with the library are updated on the monthly basis and the data are available on the college website.

**Publications**

Dagar, Punam (2013) Nari Sashaktikaran Avam Gandhi Darshan .Nari Samvad No. 88-89,22-24

Snigdha(2016) Status of Women Education in Rural India. International Journal of Social Science and Humanities Research, 4(1), 48-56

Snigdha (2015) Fledgling Corporate Bond market and the liquidity Pattern. International Journal of Management and Commerce Innovations, 3(2),48-75

Snigdha(2015) FDI in India and its effects on Capital Flow. Internaitonal Journal of Management and Commerce Innovations, 3(2), 23-29

**Conferences organized/ Papers presented**

Presented a paper on ‘Abhimanyu Anant Ki Kavya Chetna’ in an International Seminar on ‘Pravasi Sahitya Prasang’ on 25<sup>th</sup> January 2016 organized by AditiMahavidyalya. (Dr. Poonam Rathi Associate Professor, Deptt. of Hindi.)

Presented a paper on title मधुमालती में नारी का सामाजिक अस्तित्व in a two days National Conference organised by Hansraj College, D.U. in Collaboration with UGC and ( Dr. Reeta Namdev Assistant Professor , Deptt of Hindi.)

Presented a paper on title “Chaakin National Conference organised by Centre for Indian Languages JNU, New Delhi (Dr. Suman Singh Associate Professor, Deptt. of Hindi)

Presented a paper titled “Finding Efficiency in Data Envelopment Analysis using Variable Reduction Technique” at 7<sup>th</sup> International Conference on Quality, Reliability, Infocom Technology and Business Operations (Trends and Future Directions), held on 28-30 December, 2015 organized by Society for Reliability Engineering, Quality and Operations Management (SREQOM), Department of Operational Research, University of Delhi, Delhi and co-organized by Lulea University of Technology, Sweden ( Ms. Seema Gupta, Asstt. Prof, Deptt of Mathematics)

**Faculty Strength** Permanent - 40; Ad hoc - 28

**Financial Allocation and Utilization**

Grant sanction: Rs.12,57,00,000/-

Utilized: Rs. 13,77,91,822/-

**Placement details**

Number of students getting successful placements - 27

Number of Companies/Industries coming for campus recruitment -3

Number of repeat recruiters -1

**BHARATI COLLEGE****Major Activities and Achievements**

Year 2015-16 has been a year of growth and development. Bharati College has been allotted four new courses- namely, Mass Communication and Journalism in English, B.Sc (Hons) in Mathematics, B.A. (Hons) in Psychology and B.A. (Hons) Sociology. The college has also applied for B.Sc (Hons) in Computer Science and post graduate course in M.A. (Sanskrit). The inspection team for both the courses has already visited the college. Final approval is awaited. We plan to apply for Science and Management courses also. The college has been accredited by NAAC score of 2.85 i.e. B grade in October, 2015. During the academic year 2015-16, Internal Quality Assurance Cell



(IQAC) was formulated to undertake the enhancement of quality education through internalization of quality culture and institutionalization of best practices. The Principal, Dr. Kanta Rani Bhatia was invited to be the Chief Guest at Delhi Sanskrit Academy and FICCI Auditorium. She is going to deliver a series of lectures at U.G.C on concept of Sanskrit Grammar for national and international graduates and post graduates students. Four video lectures have already been delivered by her on the same concepts.

### **Outstanding Honours/Distinctions**

Dr. Nadini C. Sen of English Department has been awarded Vishisht Siksha Samman conferred by Vishisht Institute of Indore for her contribution to higher education.

Dr. Poonam of Commerce Department has been awarded Bhagirathi Award conferred by Bhagirathi Samman Samaroh for educational, social and cultural contribution.

### **Research Projects**

Intervention Strategies to Enhance Social Emotional Competence in young was funded by UGC from 2013 to 2015 for 6 lakhs approx.

Assessing Stressors among young adults: A contribution towards building a stress free & youthful India funded by University of Delhi for 3.25 lakh.

### **Students with distinctions**

Heena secured the bronze medal in 32<sup>nd</sup> Delhi State Taekwondo Championship and South West District Championship.

Monika Jha secured bronze medal in the Erobern 2016 – The Annual Sports fest of Miranda House.

S.U.O. Kiran, J.U.O. Sakshi Vashist, J.U.O. T. Ritabala Devi and Cpl. Himanshy got first position in Point to Point March and Basketball Competitions and second position in Cultural Competition in the All India Girls Trekking Expedition held in Himachal Pradesh.

### **Library Development**

The College has a large and well-equipped library with the latest text books, reference books and journals in various subjects and disciplines. It also has books, journals and magazines of common interest in order to encourage general reading and broaden the intellectual horizon of students. This year 1342 books were added to the stock of Library taking the total of books available to 49,842. The library subscribes to 19 Newspapers in English and Hindi, 29 national and International journals and 20 magazines. The Library also has a collection of Braille scripts for visually challenged students. To promote research activities among faculty members the Library has institutional membership of N List. Outdated books have been weeded out this year. The facility of wi-fi and photocopy inside the library has been introduced this year.

### **Publications**

Dwivedi, S. S. (2015). The Rise of China: pakistani Perspectives. *Griffith Asia Quarterly*, 3(1).

Dwivedi, S. S. (2016). Rediscovering Nepal's Relationship with South Asia and East Asia: India and China in Comparative Perspective. In *Unique Asian Triangle: India, China and Nepal*. G.B. Books.

Gupta , S. (2015, July-Dec). Base Erosion and Profit Shifting: The New Framework of International Taxation. *Journal of Business Management and Information Systems* , 2(2), 108-114.

Gupta, S. (2015, Nov). Derivative Instruments: Understanding the Working of Options, Futures, Swaps and Portfolio Insurance Contract with Reference to Indian Securities Market. *Indian Journal of Applied Reserach*, 5(11), 60-63.

Gupta, S. (2015, Oct-Dec). Small Finance Banks: The Big Institutional Move in Banking and Financial Inclusion Arena. *VEETHIKA*, 1(3), 13-22.

Jha, S. (2015). *Eco Critical Readings: Rethinking Nature and Environment*. Delhi: Patridge.

Kataria, K. (2015, October). Impact of Demographics Variables on the Organisation Management of Women Entrepreneurs in NCR. *International Journal of Engineering and Management Research*, 5(5).

Kaushik, S. (2015). *Cost Accounting*. Delhi: Galgotia Publications.

Loveleen, & Panda, P. K. (2015). *Micro Economics I: A Primer*. Delhi: DPS Publishing House.

Loveleen, & Panda, P. K. (2015). *Micro Economics II: A Primer*. Delhi: DPS Publishing House.

Rajni. (2016, Jan-March). Environmental Ethics: A link between Business and Environment. *International Journal of Entrepreneurship and Business Environmental Perspectibves*, 5(1), 1987-1993.

Rajni, & Chaddha, P. (2016). Innovative Financing: An Anecdote from India. *Asian Journal of Multidisciplinary Studies*, 4(4).

Rajni, & Chaddha, P. (2016, Jan-March). Education Financing in India. *International Journal of Applied Financial Management Perspectives*, 5(5), 2073-2085.

### **Conferences organized/ Papers presented**

Business Transformation in Contemporary World- Issues and Challenges, Department of Commerce on 31<sup>st</sup> October, 2015 funded by UGC.

Kalidasa Mahotsava, 13-14<sup>th</sup> February, 2016 funded by Kalidasa Academy.

Dr. Rajni and Dr. Kalpana Kataria presented and published an article titled “Innovative Financing-More than Money” in International Conference organized by Ideal Institute of Management, Delhi on 21 January, 2016

Dr. Rajni presented and published an article titled “Digital Financial Services-Mobile Money” in International Conference on Booming Service sector, organized by Guru Gobind Singh College of Commerce, Delhi University on 5-6 February, 2016.

Dr. Rakhi Jain presented a paper in an international conference titled “A Woman: Longing for Belonging” in a National University of Ireland, Galway organized by European Network of Comparative Literary Studies in August, 2015.

**Faculty Strength** Permanent faculty: 55; Temporary faculty: 01; Ad hoc faculty: 51

### **Financial Allocation and Utilization**

Grant sanction in Rs. = 1878.97 (in lacs)

Utilized in Rs.= 1730.54 (in lacs)

#### **Placement details**

Number of students getting successful placements: 94

Number of Companies/Industries coming for campus recruitment: 07

Number of repeat recruiters: 02

#### **Number and name of Domestic/International (MoUs) signed with partners**

With Indian/Foreign Universities: MOU with Regional English Language Office (RELO), U.S. Embassy, New Delhi

With Indian/Foreign Companies/Industry: MOU with NIIT Ambit Computing Pvt. Ltd. to qualify NIELIT

#### **Extension and Outreach work**

Number of camps organized in the surrounding areas: 03

Number of people enrolled/covered in the camps: 150

Number of students who worked in the camps: 70

Total number of hours dedicated to these camps: 21

#### **Journals subscribed**

Number of international journals subscribed (*online + paper back version*): 25

Number of National journals subscribed (*online + paper back version*): 04

#### **Other significant information**

The Department of Sanskrit was selected by the Sanskrit Academy for enactment of full length play titled “Swapnavasvadattam” and received one lakh rupees for staging the performance. The play was directed by Dr. Kanta Rani Bhatia. From the academic year 2015-16 IQAC unit of college has started an outreach extension cell. Through this cell, the college collaborates with different NGO’s to work on various issues like advocacy, domestic violence, gender sensitization and skill development. The college students are working with the Centre for Advocacy and Research (CFAR) on creating awareness for the rights of girl child, sex determination and sex selection. The college is also collaborating with Society for All Round Development (SAD) for enhancing technological awareness and other issues pertaining to children in nearby schools. The college has also collaborated with CRY and established a child rights club in the college. There were no failures or re-examination among students of B.A (Hons) Mathematics and B.A. (Hons) Political Science. Dr. Sonali Jain directed W. B. Yeats’ “The Words upon the Window Pane” for the International Conference Yeats and Kipling: Retrospectives, Perspectives”. Elantre-The Fashion Society” of Bharati college has been selected as “Best Fashion Society” of Delhi. The college campus has been made fully “Wi-fi enabled”.

## **BHASKARACHARYA COLLEGE OF APPLIED SCIENCES**

#### **Major Activities and Achievements**

ECA committee organised the following events in the year 2015-16

Independence Day Celebration with Patriotism theme.

Annual Culture Fest Srijan 2016 on the theme Peace for One all on January 21-22, 2016.

Songs of India was organised in Collaboration with the cultured council, University of Delhi on 24th Feb. 2016.

Bhaskaracharya Inter College tournament was organised from 18<sup>th</sup> Jan 2016- 4<sup>th</sup> Feb 2016.

Sports Day of College was celebrated on 12<sup>th</sup> Feb. 2016.

Dept. of Food Tech has been awarded Star Department Status by the Department of Biotechnology, Govt. of India.

### **Outstanding Honours/Distinctions**

Dr. Rizwana received Teaching Excellence Award for Innovation during the academic session 2014-15 on 01 May 2015 for the Innovation Project Agro-Waste management: From Waste to Wealth from Vice Chancellor, University of Delhi.

Dr. Anand Bhardwaja received Teaching Excellence Award for Innovation during the academic session 2014-15 on 01 May 2015 for the Innovation Project Agro-Waste management: From Waste to Wealth from Vice Chancellor, University of Delhi.

Dr. S.K. Shukla received Teaching Excellence Award for Innovation during the academic session 2014-15 on 01 May 2015 for the Innovation Project Agro-Waste management: From Waste to Wealth from Vice Chancellor, University of Delhi.

Dr. Uma Dhawan awarded UGC-Raman Fellowship for Post-Doctoral Research at Boston University, Massachusetts, USA.

### **Research Projects**

To explore the potential of biosimilars as cost effective therapeutic products funded by University of Delhi.

Exploring the Involvement of Mechanotransduction Network in Inter-individual Differences through Ayurgenomics Approach funded by University of Delhi.

### **Students with Distinctions**

Shweta Warriar	B.Sc(H) Biomedical Science	Ist
Anchal Rajpal	B.Sc(H)/ B.Tech Computer Science	Ist
Gaurav Raj Sengar	B.Sc (H) /B.Tech Electronics	Ist
Aditi	B.Sc (H) /B.Tech Food Technology	Ist
Anurag Kumar	B.Sc (H) /B.Tech Polymer Science	Ist

### **Library Development**

#### **Growth of Library**

Library has a collection of 23132 volumes of books including reference books, 336 bound volumes of journals and 491 CD-ROMS. Apart from the regular subscription to some journals, the library, this year, has renewed its subscription to N-LIST (National Library and Information Services Infrastructure for Scholarly Contents) programme of INFLIBNET. This has provided the facility to access a large number of e-resources to the students and staff throughout the year 24X7.

#### **Circulation and Overdue Charges**

Library circulation (number of issue and return of books) has reached the figure of 42162 during the period from July 2014 to June 2015.

The Library collected Rs. 80503 during the period from April 2014 to March 2015 as overdue charges. The amount was deposited in the accounts department. During the current financial year the governing body of the college approved the proposal that the collection of overdue charges must be kept as “Miscellaneous Library Development Fund” and utilized for the library development. During the current financial year (as on 9 February 2016) the library has collected a total of Rs. 62801 as overdue charges out of which Rs. 52966 are under “Miscellaneous Library Development Fund”

### **Library Orientation and Information Literacy Programme**

Library organized an Orientation programme for all the students of first year on 20 July 2015. Students were oriented towards library for its collection, services, and facilities etc. in batches. The Orientation programme included an introductory lecture from the librarian and a visit to OPAC and stack racks

BMS	1100 hrs
CS	1120 hrs
EL and IN	1140 hrs
MB	1150 hrs
PS	1200 hrs
FT and PH	1240 hrs

### **Library Blog**

The blog is being updated time to time. Ever since the start of the blog, 22240 page views (as on 31 March 2015, 1910 hrs.) have been recorded from various parts of the globe including

India	20039
United States	1791
Germany	540
Ukraine	358
Russia	389
France	184
UAE	103
Indonesia	76
Japan	79
United Kingdom	60

### **Library Training**

The Library imparted training to students of Library and Information Science.

Future Plans for 2015-16

Introduce RFID system in the library.

Design and develop an Institutional Repository of the college using DSpace.

Study of feasibility of installation of KOHA – open source software.

Acquire adequate furniture for the library reading room

### **Publications**

Sangeeta Srivastava, “UML Profile for the Web GRL Requirement Model and EA-OOH Design Models” in International Journal of Emerging Technology and Advanced Engineering, Volume 5, Issue 8, pp. 313-322, August 2015 ISSN 2250-2459.

Shakti Sharma, Harish Parthasarathy, Akash Tayal, Geeta Bhatt, Manoj Khanna and Updesh Sharma, An approach towards approximation of the Design of Quantum Gate, International Journal of Advanced Technology and Engineering Exploration, ISSN (Print): 2394-5443 ISSN (Online): 2394-7454 Volume-2 Issue-8 July-2015.

T.S.Prajapati, S. Jha, S. Jain, T. Dhewa, J. Kumar, A. Kumar “Essence , Trends and Proposed Design for Microbial Sensing” ,International Journal for Scientific research and development” , October 2015, page 30-33.

Tania. S.Prajapati, S. Jha, S. Jain, T. Dhewa, J. Kumar, Amit Kumar “Essence , Trends and Proposed Design for Microbial Sensing”, International Journal for Scientific research and development” , October 2015, page 30-33

M. Garg, P. K. Sabharwal, S. Sharma, S. G. Varmani and S. D. Sadhu. “ Evaluation Of Mathematical Models To Describe Thin-Layer Drying And To Determine Drying Rate Of Potato Peels Using Tray Drying”; Intl. J. of Sci. Eng. and Appl. Sci. ,2015, Vol. 1(7), Pages 1-15.

Anil Rathi, Rakesh, Manoj Kumar, Geeta Bhatt, Avinashi Kapoor; “Analysis of chromium clad optical waveguide for TE pass polarizer using polymer buffer layer”; International Journal of Engineering and Applied Sciences, July. 2015. Vol. 7, No. 02, Pages 31-36.

Convener 9th national conference on Indian Association of solid state chemistry and allied areas, Delhi. S. K. Shukla, Sudheesh K. Shukla, Penny P. Govender, Eric S. Agorku, A resistive type humidity sensor based on crystalline tin oxide nanoparticles encapsulated in polyaniline matrix, *Microchimica Acta*, 183(2),(2016)573-580.

S. D. Sadhu, A. Soni and M. Garg; Thermal Studies of the Starch and Polyvinyl Alcohol based Film and its Nano Composites; *Journal of Nanomed Nanotechnol* 2016 (Accepted)

Sidharth Sirohi, Dharendra Singh, Ratiyakhshi Nain, Dambarudhar Parida, Ashwini K. Agrawal and Manjeet Jassal, *Electrospun Composite Nanofibres of PVA Loaded with Nanoencapsulated n-Octadecane*, *RSC advances* 2015, 5, 34377-34382.

#### **Conference organised/Papers presented**

Convener 9th national conference on Indian Association of solid state chemistry and allied areas, Delhi.

Coordinator of the Better Process Control School conducted in Collaboration with USFDA, India Office.

Coordinator in one-day seminar on “Polymer Modification, Processing and Characterization” organized by “PEARLS”, Departmental Society of Polymer Science on January 25, 2016 at Bhaskaracharya College of Applied Sciences.

Organised National Seminar on “Importance of Nutrition in development of Processed Foods”- during the National Nutrition week celebration in association with AFST (I) Delhi chapter at BCAS on 2<sup>nd</sup> Sept, 2015.

**Faculty Strength** Teaching – 46 Regular Teaching Faculty + 01 Librarian; Ad-hoc Teaching Faculty - 38

#### **Finance Allocation and Utilization**

Grant sanction in Rs.179529675.58 (Plan/Non-Plan)

Utilised in Rs.132824974.98 (Plan/Non-Plan)

#### **Placement details**

Number of Students getting successful placements - 04

#### **Extension and Outreach work**

NSS unit of the college constituting 89 volunteers believes that knowledge and energies of the students should be channelized for the services of society. NSS unit celebrated the NSS day on September 24,2015 by initiating a cleanliness

drive in the college campus, whereby student volunteers were engaged and motivated to have a clean environment in their surroundings. NSS unit also participated in the 'Run for Unity' on October 31, 2015 on the occasion of 140<sup>th</sup> birth anniversary of Sardar Vallabhbhai Patel. The day is being celebrated as 'Rashtriya Ekta Diwas' (National Unity Day). Books, Clothes and toys were collected from the staff and students and were donated. On February 10, 2016 Various competitions like Poster making Competition on Current Environmental Issues using recycled sheets, Best out of waste making Competition and Slogan writing competition on Even Odd car scheme in Delhi were organized towards creating awareness among students. NSS unit in association with Eco club celebrated Sarasvati Pooja on the occasion of Basant Panchmi on February 12, 2016 as a 'Vasantotsav'. The celebration started with "Vedic Hawan", followed by plantation drive by final year students. A total of 78 students planted a tree with an oath to nurture the same during their stay in the college and also to plant a tree on each of their upcoming birthdays. These plants will be further adopted by junior students and preserved in the memory of actively participating students. The celebrations ended with an enthralling lecture cum documentary presentation by Dr. Seema Upadhaya, President Sankalp Foundation, on the role of "Global warming in Himalayan Biodiversity".

### **Journals Subscribed**

The college subscribes to the N-List (National Library and Information Services Infrastructure for Scholarly Contents).

## **DR. BHIM RAO AMBEDKAR COLLEGE**

### **Major Activities and Achievements**

The Gender Sensitization Committee organized its programme "Gender Bender" on 9<sup>th</sup>-10<sup>th</sup> April, 2015. The College NSS Unit organized a three-day 'Gram Jagriti Yojana' at Banpur village in Lalitpur district of U.P during 5<sup>th</sup>-7<sup>th</sup> April, 2015. RASHTRIYA EKTA UTSAV was celebrated in the college, three events were organized. Intra College Rangoli Competition on the theme of National Integration was held on 29<sup>th</sup> October, 2015. RUN FOR UNITY was held on 31<sup>st</sup> October, 2015 to pay tributes to Sardar Vallabhbhai Patel on the occasion of his 140<sup>th</sup> birth anniversary. 'Youth Policy India Vision 2020' was held on 3<sup>rd</sup> November, 2015. On the occasion of National Youth Day, NSS Unit of College had organized a quiz competition. Our College Alumni Club organized Delhi Best Cadet Competition on the occasion of silver jubilee year of the College on 25<sup>th</sup> August, 2015 in which SUO Mahendra Singh won the second prize. In this competition many Colleges & Schools participated and Chief Guest was NCC DG Lt. Gen. A Chakravarty. He distributed prizes to the winners, and he delivered a motivational speech to cadets. On the occasion of birth anniversary of Baba Saheb Dr. Bhim Rao Ambedkar, 9<sup>th</sup> Baba Saheb Memorial Lecture was delivered by Dr. Vivek Kumar- a well-known professor who highlighted the social and political contributions of Baba Saheb to the Indian Society.

### **Library Development**

The college library with approximately 34,302 books is fully computerized with online facilities accessible to students and faculty members. About 6302 new books were added this year. The library subscribes around 127 periodicals, 92 in English and 35 in Hindi. The college has made special provision to help economically weak students by providing books to them through Students' Aid Fund (SAF) Scheme. This year 90 books have been purchased for SAF and distributed to students. Besides, the library is providing other important facilities such as: Space for 100 readers, while the teachers have a separate reading room facility. The library also provides OPAC (Online Public Access Catalogue) facility to every reader; N-lists (E-Journals) for faculty, staff and students; Separate consultation section for reading on Ambedkar, Gandhi, Nehru & other personalities; Dictionaries in each floor for consultation; A Display Board inside the library to inform about Book Fairs, Exhibitions, Seminars and Workshops; Air conditioned cabin exclusively for the use of physically challenged persons and New Data section, Not to be issued Text book section and important old journals, etc.

## **Publications**

Dr. G. K. Arora, 2015: “Globalising India: Political Economy Dimensions”, 2 volumes. The Readers Paradise, New Delhi (ISBN-978-93-82100-75-0. Vol I); (ISBN-978-9382110-76-7, Vol II); & (ISBN-978-93-82110-55-5, Set) (4<sup>th</sup> Book).

Sanjeev Kumar, 2015 “Thoughts Sweet and Sour (Part-I)’ from Partridge (A Penguin Random House Company).

Mr. Kumar Satyam, (2015) “Tribal Development in Bihar: A Critical Analysis Special Reference to Purnia District” in Asian Journal of Science and Humanities. Vol.-06, Issue-02,2015. ISSN: 0976-9803 (Co-author Mr. Rabi Raj).

Dr. Atul Pratap Singh ( 2015) “Social Work Practice: The Changing Context”, jointly with Prof. Sanjay Bhatt, Readers Paradise, New Delhi, in association with National Association of Professional Social Workers in India (NAPSWI), ISBN: 978-93-82110-43-9 (2015).

Dr. Kusum Nehra( 2015) “Aadikaleen Evam Madhayakaleen Kavya”, (Akshar Publication: ISBN No. 978-93-85600-02-9)

Dr. Bishnu Mohan Dash (2015) “Child Labour in Bloblised India: an Overview in UPUEA Economic Journal Vol. 11,2015

Dr. Navin Kumar (2015, April) “Criminal Psychology” from Lexis Nexis ( A division of Reed Elsevier). ISBN-978-93-5143-423-8

Dr. Sujit Kumar (2015) “Resistance to Change- The Gita Way published in International Journal of Transformations in Business management [http:// www.ijtbm.com](http://www.ijtbm.com)

Sh. Krantideep Verma ( 2015, May) “JP’s Quest or Total Revolution in India: an analysis” in Paripex: Indian Journal of Research.

## **Conferences organized/ Papers presented**

National Conference on “Geospatial Technologies, Smart Cities and Sustainable Development” on 11<sup>th</sup> March, 2016.

Role of Cooperatives in Women’s Empowerment-Achievements and Challenges: An Indian Experience” in the 4<sup>th</sup> Biennial Conference of Indian Academy of Management organized by Indian Institute of Management (IIM), Lucknow, Noida Campus (11<sup>th</sup> -13<sup>th</sup> December, 2015).

Urban Environmental Challenges of India: A Case Study of Delhi” at International Geographical Union, Regional Geographical Conference at University of Lomonosov, Moscow, Russia, 17<sup>th</sup>-21<sup>st</sup> August, 2015.

1<sup>st</sup> International Conference on Positive Psychology organized by IAPP and Manav Rachna University, from 27<sup>th</sup> February to 1<sup>st</sup> March, 2015.

“A Content Analysis of Web Advertisements on Social Networking Sites” in the 68<sup>th</sup> All India Commerce Conference, 2015, organized by University Department of Commerce and Business Management, Vinoba Bhawe University, Hazaribag, Jharkhand (6<sup>th</sup>-8<sup>th</sup> November, 2015).



“Issues & Challenges of Elderly People in Rural India: a case study of Uttar Pradesh” in National Conference on “Issues and Concerns of Elderly People in India” organized by Aditi Mahavidyalaya, University of Delhi, Delhi, 14<sup>th</sup> February, 2015.

**Faculty Strength** Permanent: 78; Temporary: 01; Ad-hoc: 36

#### **Financial Allocation and Utilization**

Grant sanction in Rs. 20,39,00,000/- (100% funded by the Delhi Government)

Utilized in Rs. 19,36,51,840/-

#### **Placement details**

Number of students getting successful placements: 89

Number of Companies/Industries coming for campus recruitment: 05

Number of repeat recruiters: 03

#### **Extension and Outreach work**

Number of camps organized in the surrounding areas: Number of camps organized in surrounding areas- The College NSS Unit organized a three-day ‘Gram Jagriti Yojana’ at Banpur village in Lalitpur district of Uttar Pradesh during 5<sup>th</sup>-7<sup>th</sup> April, 2015. Dr. Sarla Bhardwaj, the programme coordinator of NSS, took a team of 39 students of this educational trip. Three other teachers Dr. D.K. Pandeya, Dr. KK Sharma and Dr. Sakshi Vasudeva also went on this trip. The purpose of the trip was to increase awareness among villagers regarding evil practices prevalent in the society.

Number of people enrolled/covered in the camps: 44

Total number of hours dedicated to these camps: 32

#### **Students under exchange programme**

Undergraduate inbound Exchange Programme with Japanese Students for the last 03 years

#### **Journals subscribed**

Number of international journals subscribed (*online + paper back version*): N-List subscription

Number of National journals subscribed (*online + paper back version*): N-List subscription

#### **Other significant information**

NGO Meet & Diwali Mela: NGO meet and Diwali Mela were organized on 7<sup>th</sup> November 2015. More than 23 NGOs participated in this event which saw an active participation of students as well as the teachers.

Special Event: A workshop was organized on Personality Development and polishing of students for stage performance by Miss Delhi (Miss Muskan Khubchandani) on 7<sup>th</sup> September, 2015. Another workshop on tips of make-up held on 17<sup>th</sup> September, 2015. The society ensured its entry in BITS 2015 through various round of auditions held by BITS. Third prize in TECNICA VERCHASVA, 2015.

The college is also one of the 20 Earthquake Strong Ground Motion Stations in Delhi for recording and monitoring the earthquakes in Delhi under the project jointly handled by Director of Seismology Division (DST)-DU-IIT (Roorkee).

The college may be the only college in the University which has initiated to empower its students with ideas and entrepreneurial development in collaboration with Ministry of MSME, Government of India. Our first batch of 70 students will be ready soon to take up startup and enterprise creations

## COLLEGE OF VOCATIONAL STUDIES

### Major Activities and Achievements

The College organized a debate competition on 25<sup>th</sup> October 2015 during observance of vigilance week, in collaboration with Air India on the topic “Prevention of Corruption – Is it the responsibility of Government or people?”

### Outstanding Honours/Distinctions

Dr. Inder Jeet, Principal of the College was nominated to an UGC Expert Committee constituted for coordinating and vetting the development of model curricula for Under Graduate Courses under the Choice Based Credit System (CBCS). He was also nominated on the UGC Committee for review of the institutions under the scheme of community colleges.

Dr. Anu Satyal, Associate Professor, Economics Department has been awarded UGC Research Award for the years 2016-2018 on ‘A Critical Analysis of Firm-Level Innovation in India, National Innovation Systems and Comparisons with China’.

### Research Projects

University of Delhi, CVS-301, Innovation Project-Innovating College Placements: Challenges and Changing Dynamics with the Industry, 2015-16, 2.5 lacs

University of Delhi, CVS-302, Innovation Project-Assessment of Emerging Attraction in the Golden Triangle (Delhi, Agra, Jaipur), 2015-16, 2.5 lacs

### Students with distinctions

Ria Bhatnagar	-	B.A. (VS) HRM	-	1817/2400	1 <sup>st</sup> Position
Sanjana Verma	-	B.Com. (Hons.)	-	2108/2400	1 <sup>st</sup> Position
Purva Chetal	-	B.A. (Hons.) Economics	-	1909/2400	1 <sup>st</sup> Position

Ajay Rawat student of B.A. (VS) Tourism, 1<sup>st</sup> year won Gold medal in Inter-College Best Physique Tournament conducted by Delhi University Sports Council at Ramanujan College in 2015-2016.

In Athletics, Vijay Singh B. A. Eco.(H) 3<sup>rd</sup> year won Gold medal in 400 metre and silver medal in 200 metre (Delhi State Championship).

### Library Development

Books in stock - 51911

Internet facilities upgraded: Wi-Fi Connectivity, Laptop Connectivity & E- Resources to library users Through Inflibnet facilities.

The teachers are given the access to e-resources of UGC/INFLIBNET-N List for academic activities/ research work in their respective areas.

### **Publications**

Satyaj, Anu., (2015) ‘Crime and Punishment: The Problem of Wilful Default in Indian Scenario and its Resolution.’ *The Inclusive*, 1 (7), retrieved from the inclusive.org

Deb, Ashis Taru (2016). Indian Economy-Sectoral Issues (E-Reader version). Retrieved from <http://epgp.inflibnet.ac.in/team.php?syl-id=11#>

Shweta, (2015), The Promotional Strategy in competitive smart phone market: A case study of Indian and Chinese mobile handsets companies in *International Journal of Research in Commerce, IT and Management* (07), (66-69) retrieved from [ijrcm.org.in/](http://ijrcm.org.in/)

Shweta, (2015) Degradation of Indian Woman’s image in Advertising: A case of Indian Television, Educator- *FIMT Journal*, VIII (June-Dec.) (92-96)

Ashutosh K. (2015) Rajasthan Tourism, Past and Present, A.K. Publishing House, New Delhi.

Ashutosh K. (2015) Rural Tourism, retrieved from [du.ac.in](http://du.ac.in)

**Faculty Strength** Permanent: 47; Temporary: 01; Ad-hoc: 39

### **Financial Allocation and Utilization**

Grant sanction in Rs. Twenty One Crore Forty Eight Lakhs

Utilized in Rs. Sixteen Crore Fifty Three Lakhs

### **Placement Details**

Number of students getting successful placements: 112

Number of Companies/Industries coming for campus recruitment: 25

Number of repeat recruiters: 05

### **Number and Name of Domestic/ International (MoUs) signed with partners**

With Indian/Foreign Companies/Industry: 04

### **Extension and Outreach work**

Number of camps organized in the surrounding areas: 01

Number of people enrolled/covered in the camps: 23

Number of students who worked in the camps: 23

Total number of hours dedicated to these camps: Six Hours

### **Journals subscribed**

Number of international journals subscribed (*online + paperback version*): 1

Number of National journals subscribed (*online + paperback version*): 23

## **COLLEGE OF ART**

### **Major Activities and Achievements**

Newly admitted students of BFA & MFA were welcomed to the College to attend the “Induction Ceremony” along with their parents to meet the Faculty, Staff and students on 19<sup>th</sup> July, 2015. The ANNUAL ART EXHIBITION displayed the selected works of BFA & MFA students and inaugurated by Hon’ble Dy. Chief Minister Mr. Manish Sisodia on 16<sup>th</sup> April, 2016 and continued till 22<sup>nd</sup> April, 2016. Smt. Punya Salila Srivastava, Secretary, DTTE, Sh.

Nand Katyal, Eminent Artist (Painting 1961 Batch), Prof. (Mrs.) Suneera Kasliwal (Dean Faculty of Music & Fine Arts), University of Delhi, were the guests of Honour. The College organized the Annual Sports Meet at Karnail Singh Stadium, New Delhi on 26<sup>th</sup> March, 2016. The College organized the Annual Educational Study Tour 2015-16 from 6<sup>th</sup> March, 2016 to 20<sup>th</sup> March, 2016 for the BFA students of III Year and IV Year specialization classes of the six disciplines. The College organized a three days workshop for the students of MFA Painting with a renowned Polish Painter and Graphic Designer Mr. Ryszard Kaja on 23-25 February, 2016. On the invitation of College of Art, the Eminent Canadian painter and printmaker Ms. Carolyn Riddell graciously had an interactive discussion and slide show with the Students. The College participated in the Annual Cultural Festival of the University of Delhi at the two day UGC National Seminar, 15 & 16 March, 2016 titled “Changing Scenario of Performance Practices in Indian Music” Students works were exhibited and displayed. The College students participated in the 8<sup>th</sup> National Level Students workshop at Chamarajendra Government College of Visual Art, Mysore (CAVA) from 12 to 19 December 2015.

### **Outstanding Honours/Distinctions**

Deaf and Mute Students of College conducted an art exhibition cum workshop “Silent Voice” at the Korean Cultural Centre, Delhi

Students of MFA Painting of College were also showcases during the Shimla Art Fest-2015. The Art Festival was organized by the District Administration, Shimla, from the 28<sup>th</sup> May to 31<sup>st</sup> May, 2015.

Virender Singh BFA Sculpture, Fourth Year Participated in “Best Out of Waste” and won First Prize in this event organized by Janki Devi Memorial College, New Delhi.

### **Students with distinctions**

Pradeep Vadher	BFA (Painting)	-	Final	752/1000, 1 <sup>st</sup>
Pragya Gupta	MFA (Applied Art)	-	Final	815/1000, 1 <sup>st</sup>
Ismat Pal Singh	MFA (Applied Art)	-	Final	802//1000, 2 <sup>nd</sup>
Akshita Aggarwal	MFA (Printmaking)	-	Final	761/1000, 1 <sup>st</sup>
Aradhika Singh	MFA (Visual Comm.)	-	Final	832/1000 1 <sup>st</sup>

### **Library Development**

- (a) Total budget : Rs.4 lakhs p.a.  
 (b) Number of books added : 196  
 (c) Journals subscribed to : 24

**Faculty Strength** Permanent: 16

### **Placement details**

Number of students getting successful placements:  
 24 Students selected in Kalikaar Design Pvt. Ltd in 2016  
 26 Students were shortlisted in NIIT in Nov.2015

Number of Companies/Industries coming for campus recruitment - 05

Many advertising agencies, Art studios, Publications Houses, NIIT, Art Galleries take students for placement.

Number of repeat recruiters: 01 NIIT

## COLLEGE OF NURSING, ARMY HOSPITAL (R&R)

### Major Activities and Achievements

Army Hospital (R&R) is a tertiary medical care provider and research centre of the Armed Forces Medical Services located in Delhi Cantt. College of Nursing conducts BSc (H) Nursing course with an annual intake of 30 students. Major Activities Include the

WHO day celebrated on 07 April 2015 : A intercollegiate poster competition on 'Food Safety-from farm to plate' and quiz competition along with RML hospital conducted .All students participated in the programme and secured II position in quiz and III position in poster competition.

22 April 2015: College Day "KNACK FEST" was celebrated in College of Nursing. Chief Guest was Mrs Jyoti Unni, President, Army Wives Welfare Association Unit AH(R&R).

### Outstanding Honours/Distinctions

Lt Col Rajusha Raju, Assistant Professor, College of Nursing has been awarded GoC in C commendation on 26 Jan 2016.

PN Suranya Suresh of III year General Nursing and Midwifery course participated in National Level Biennial Conference Student Nurses Association Javelin Competition representing Delhi.

### Research Projects

A descriptive study to assess the adherence to existing protocol of needle stick injury among health care worker at a tertiary health care worker at a tertiary health care hospital.

Principal Worker: Lt Col Dola Banerjee, Associate Professor. Year: 2014 - 2016

Funded by Armed Forces Medical Research Committee. Amount sanctioned: Rs. 20,000/-

A comparative study to assess the effect of Kangaroo mother care vs conventional care to pain response among neonates in tertiary care hospital. Principal Worker: Lt Col Rajusha Raju, Assistant Professor. Year: 2014 – 2016.Funded by Armed Forces Medical Research Committee.

Amount sanctioned: Rs. 65000/-

A descriptive study to analyse the effectiveness of antibiotic usage in patients undergoing cardiac surgeries at CTVS centre of a tertiary care hospital. Members: PN Priyanka Prakash, PN Aneeta Paul, PN Annamma Thomas, PN Revathy Aravind T, PN Abhilasha Guide: Lt Col Alka Thomas Year – 2015. Self funded by students as study was part of curriculum.

A descriptive study to assess the clients satisfaction with patient care services in selected acute wards of a tertiary care hospital.Members: PN Rini Joseph, PN Jyothy Krishnan, PN Jijo Thomas, PN Deepa Maurya, PN Jyoti Rani Guide: Lt Col Reena Ojha.Year – 2015. Self funded by students as study was part of curriculum

A comparative study to assess effectiveness of routine vital sign monitoring v/s goal directed monitoring in detection of complication among hospitalized children in quaternary care setting.

Members: PN Sneha Aji John, PN Sakshi Sharma, PN Ashly Thomas, PN Priyanka Chauhan, PN Aleena S Dileef Guide: Lt Col Rajusha Raju.Year – 2015. Self funded by students as study was part of curriculum.

**Students with distinctions**

Internship GNM Examination Feb 2015, DGAFMS - PN Priyanka Prakash AJ, PN Sakshi Sharma and PN Aneeta Paul

III Semester B.Sc (H) Nursing Examination Nov-Dec 2015, DU: N/Cdt Jyotsna

II Semester B.Sc (H) Nursing Examination May-Jun 2015, DU: N/Cdt Arunima GP, N/Cdt Dixeena OA

I Semester B.Sc (H) Nursing Examination Nov-Dec 2015, DU: N/Cdt Parul

**Library Development**

Total No of Books in College of Nursing - 4577

Total number of books in Army Hospital (R&R) library – 10000

**Conferences organized/ Papers presented**

Staff Development Programme on ‘Phlebotomy’ on 29 April 2015 : organized and funded by College of Nursing. Attended by all faculty and students.

Nursing symposium on ‘Nurses – A Force for Change: Care effective and cost effective’ 08 May 2015: Attended by 250 nursing students and officers. Funded by Army Hospital (R&R)

Staff Development Programme on ‘Safe Handling of Hazardous Drugs’ on 09 May 2015: organized by BD Company. Attended by all faculty and students

Panel discussion on ‘Hospital Acquired Infection’ 21 Aug 2015: organized and funded by Dept of Pathology AHRR. Attended by students and faculty.

Symposium on ‘Kidney disease and children - act early to prevent it’ on 11Mar 2015 : Students attended on occasion of World Kidney Day at AIIMS .

**Faculty Strength** Total Faculty – 23; Ad-hoc Faculty – 03

**Financial Allocation and Utilization**

Grant sanction

ACG grant : Rs 41,09,067/-

TTIEG grant : Rs 1,60,560/-

CSD Fund : Rs 28,86,007/-

IHQ Fund : Rs 62,500/-

Utilized – 100% utilized

**Placement details**

Number of students getting successful placements – all 15 students after completion of GNM course commissioned in Military Nursing Service

Number of Companies/Industries coming for campus recruitment – No companies invited for campus recruitment as College of Nursing AHRR is an Armed Forces Organization and all students are absorbed to service after completion of training.

**Extension and Outreach work**

Number of camps organized in the surrounding areas. – 06 Details are as follow:

03 May 2015: Health camp was organized by Army Wives Welfare Association to create awareness on breast cancer and early detection among Armed Forces personnel and families. Students staged a role play on Breast Self Examination.

06 May 2015: Students staged a role play on 'Adolescent Health' at Air Force Station, Palam.

09 May 2015: Faculty and students participated in 'Run for Health' organized by Salokya College at Connaught Place for International Nurses Day.

Oct 2015: Students and faculty actively participated in rendering health care services alongwith doctors for ten days in NCC camp for national games candidates.

04 Jan 2016: Students organized an Under 5 health camp at PHC Dwarka Sector 2.

20 Mar 2015: Students staged a skit on 'Female Foeticide' on occasion of International Woman Week followed by a medical camp.

Number of people enrolled/covered in the camps – 100-200

Number of students who worked in the camps – 20-30

Total number of hours dedicated to these camps – 6-7 hrs

#### **Journals subscribed**

Number of international journals subscribed (*online + paper back version*) - 90

Number of National journals subscribed (*online + paper back version*) -09

## **DAULAT RAM COLLEGE**

#### **Major Activities and Achievements**

The academic year 2015-16 was marked with a plethora of co-curricular and extra-curricular activities. College had organized one International and two National Conferences. More than 20 eminent speakers who spoke on various topics across disciplines visited the campus. Recycling unit of college became functional with aim to make our campus a Zero-discharge campus. The college successfully mapped more than 100 plant species within its campus and all 300 trees were labelled with their botanical names and common names. A beautiful herbal garden came up, adding further to the campus grandeur. The Students Union Elections were paperless. The College also started its in-House Skill Development Certificate Courses to the benefit of students across disciplines. The counselling center run by Psychology Department was in great demand. Basant Panchami, Holi, Republic Day, Independence Day were celebrated along with Senior Citizen Day and Good Governance Day. Cleanliness drive was also undertaken. Thus college tries to instill and inculcate right values with modern education and develop their personality and interpersonal skills.

#### **Outstanding Honors/Distinctions**

Dr. Savita Roy (Principal) received Teaching Excellence Award from Delhi University in 2015.

Dr. Padam Shree Mudgal received Teaching Excellence Award from Delhi University in 2015

Dr. Kamna Vimal received Samaradha ka Samman from Delhi Sanskrit Academy in 2014-15.

#### **Research Projects**

##### **Star Innovation Project**

Campus Sustainability Index: Analyzing the Carbon Foot print and Hand print

To Investigate the Incident of Polycystic Ovary Syndrome among Under Graduate college girls in Delhi University  
Environmental Impact Statement: Clean energy from Waste with Microbial Fuel Cells  
Recycled Polyvinyl Alcohol (PVA) from e-waste and its Applications  
Synthesis of Bio-based Mesoporous Material and its Application in Water Purification  
Status of Women, Children & Youth in Slums of Delhi: With focus on Health, Education & Employment  
Evaluating the Effect of Common Food Additives on Vertebrate Development and Organogenesis using Zebra Fish as a Model System  
10 Innovation Projects funded by the University of Delhi.

### **Students with distinctions**

University Position Holders – Bani Malhotra, M.A. Final (Psychology), I Position  
All Round Best Student of the College - IsratJahan B. Sc. (H) Biochemistry.  
Highest Scorer (Sciences) – Divya, B. Sc. (H) Mathematics All Three Years Combined – 93.7.  
Highest Scorer (Commerce) – Garima Garg B.Com (H) All Three Years Combined – 89.5.  
Highest Scorer (Humanities) –Poonam Bamel B.A.(H) Economics All Three Years Combined – 83.9.

### **Library Development 2015-2016**

Property counter was constructed  
New Library entry gate was constructed in the Ist Floor.  
Special room for teachers with computer facilities was constructed.  
1235 Books were added to the Library  
Some books were shifted from Ist floor to ground floor as the Ist floor stacks were getting full.  
Total Grant is Rs. 15,77,600/- ( recurring)  
Rs. 22,500/- (UGC assistance)  
Rs. 2, 50,000/- (XII Plan Grant) out of which Rs. 1,50,000/- was spent.  
Journals subscribed (National)- 40  
Journals subscribed (International)-1  
Renewal of membership of UGC-INFLIBNET, N-list. One thousand journals are available on this site.

### **Publications**

*Promilla* (College Magazine), published every year since 30 years.

*Shreshtha* (Journal of Women's Development Cell, DRC), published since 2015 with ISBN:978-93-83745-12-8

Roy, Savita. (2016). Dense Plasma Focus-based Nanofabrication of III-V Semiconductors: Unique features and Recent Advances.*Journal of Nanomaterials*, Volume, 6(4), (ISSN:1687-4110).

Arora, Sushma. (2015). *Business Laws* (1st edition), Taxmann Publication New Delhi, (ISBN: 987-93-5071-825-4).

Arora, Sushma. (2016). *Business and Industrial Laws* (1st edition), Taxmann publication, New Delhi, (ISBN: 978-93-5071-773-8).

Khosla, Meetu. Understanding Others Emotions. *Research Journal of Social Science & Management*, 5(9), 69-74. (ISSN No. 22511571).

Sharma, Kavita. (2014). Relationship between Selected Anthropometric Measurements and Performance of Women Basketball Players.*Journal of Computing Technologies*, Vol.3(10), (ISSN 2278-3814).



Jain, Anju. (2015). Biochemical Effects of Heat Stress and Acclimation. *DU Journal of Undergraduate Research and Innovation*, Volume 1 (3), 49-56.

Bhattacharya, Moitree. (2015). Emergence of Electoral Politics of Caste: The Case of the Matuas in West Bengal. *IASSI Quarterly, Contribution to Indian Social Science*, Vol.33(2-4), 126-134.

Vimal, Kamna. (2016) Vartaman-Shikshavyavasthayam-Acharyashishya-Sambandah Tasya Aupanishadic Adarshah. *Parishilanam (Uttar Pradesh Sanskrit Sansthan)*,

### **Conferences organized/Papers presented**

International Conference on “Public Health: Issues, Challenges, Opportunities, Prevention and Awareness”, held by Daulat Ram College in collaboration with an NGO Krishi Sanskriti at Sadhbhavana Bhavan on 15<sup>th</sup> -16<sup>th</sup> January, 2016.

UGC Sponsored Two-day National Conference on “Migration and Identity: the Urban Subject”, organized by English department 28<sup>th</sup> -29<sup>th</sup> January 2016

National Conference on “Print Media and Women” was organized jointly by Department of Political Science, Daulat Ram College and the Indian Association of Mass communication on August 12, 2015.

Department of Chemistry on behalf of the college, celebrated National Science Day by organizing National Workshop cum Seminar on “Novel Trends in Green chemistry & Sustainable Development”, 26-27 February, 2016 (under the aegis of Star College by Department of Biotechnology, Government of India).

Department of Psychology organized Certificate Course on Value Engagement Programme, 22Sept. - 4November 2015.

**Faculty Strength** Ad-hoc-109; Permanent – 71

### **Financial Allocation and Utilization**

Grant sanctioned: Rs. 3.5 crores approx.

Utilized: Rs 36.5 crores approx.

### **Placement details**

Number of students getting successful placements:82(Out of which 69 got placement and 13 got internship)

Number of Companies/ Industries coming for campus recruitment: 5 Companies in 2015-16

Number of repeat recruiters: 4 Companies (Times Pro, Genpact, Wipro and EY)

### **Number and name of Domestic/International (MoU) signed with partners**

With Indian/Foreign Universities

MOU between Daulat Ram College and Zoology Department University of Delhi in 2016 (Star Innovation Project on PCOS)

MOU between Biochemistry Department of Daulat Ram College and Institute of Integrated Biology and Genomics in 2015 (Zebra fish Project)

MOU between Biochemistry Department of Daulat Ram College and Zoology Department, DU in 2015 (Star Innovation Project)

MOU for Implementing the science Setuprogramme between the national Institute of Immunology and DRC in 2015

With Indian/Foreign Companies/ Industry

MOU between *Dhara*, Eco-Club Daulat Ram College and Greenobin in 2015 (Project on Recycle of paper, magazine and newspapers)

MOU between *Krishi Sanskriti* and Department of Biochemistry and Zoology, Daulat Ram College in 2014 ( To hold National/International Seminar)

### **Extension and Outreach work**

Number of camps organized/ Students who worked in the camps /Total number of hours

5 camps were organized by NSS

5 Day NSS camp for creating Health Awareness/ 90 students /25 hours

Blood Donation Camp ( 1 Day + 1 Day)/ 34 +53 students /1+1 day

3 Self Defence Camps/ 500 students/45 days ( 1 hour for 15 days )

NCC Camps were also held as per NCC norms (Total students enrolled-130)

15 days Yoga camp in April 2015- 40 students

International Yoga day camp- 40 students

National integration camp (Himachal Pradesh)- 4 students

(Hyderabad-) 6 students

10 days CATC camp in July- 50 students

RCTC camp in December (Uttarkashi)- 1 student

### **Students numbers under exchange programme**

Undergraduate inbound/outbound Exchange students

Cross- cultural exchange programme with American Delegation from Minnesota, USA. Every alternate year a group of students from St. Olaf College, Minnesota USA, visit Psychology Department with two Professors. It enables Academic discussion between their students and ours, and interaction about mutual family traditions, social system, and research opportunity.

Undergraduate inbound/outbound Exchange students: N/A

### **Journals subscribed**

Number of international journal subscribed- One

Number of National journal subscribed- Forty

## **DEEN DAYAL UPADHYAYA COLLEGE**

### **Major Activities and Achievements**

The year 2015-16 was celebrated as the Silver Jubilee Year of the College by organising various academic and extracurricular inter and intra college activities with this special theme. The research repository of the college has been further strengthened by the faculty contributing 90 articles in peer reviewed international/national Journals and Periodicals, 21 books, 14 chapters in books , 20 edited books/conference proceedings ,16 oral and 10 poster presentations in international/national conferences/seminars .UGC approved one major project and three Startup Grants. In addition, six innovation projects were granted by University of Delhi. Approximately 30 post graduate students are working under the guidance of some of the faculty members who are enrolled with different Universities all over India for Ph. D, M Phil and M.Sc Dissertations. Four members were the part of the syllabus formation and moderation committees for undergraduate /postgraduate courses. Aman Saini of B.A. I yr brought laurels to the alma mater by winning bronze medal in Archery (Compound- Men) in Asia Cup (Junior) Stage-I held at Bangkok, Thailand, 2016. The students of B.Sc. (Hons) Electronics, I yrwon First Prize in Inter College Robotics Competition organized by SSPL, DRDO, Ministry of Defence, GOI in March, 2016.B. Tech Electronics - VI

Semester students got First Prize in THINK NANO 2016 – National Student Symposium organized by CeNSE, IISc, Bangalore. The academic distinction of the college was highlighted when five students of the batch 2012-15 graduating this year were among the top three rank holders in the University with another seven among the top three in the yearly examinations held during 2014-15.

### **Outstanding Honours/Distinctions**

Dr. Arpita Sharma has got the honour of getting the Ph.D degree in Computer Science awarded to the first student under her supervision from University of Delhi.

Dr. Deepak Jain is selected as a Visiting Associate, Inter- University Centre for Astronomy & Astrophysics, (IUCAA) Pune for the period 2015-2018.

Dr. Manoj Saxena is the Regional Editor South Asia – IEEE EDS News Letter (ISSN 10741879) published quarterly by the Electron Devices Society of the Institute of Electrical and Electronics Engineers, Inc, Headquarters: 3 Park Avenue, 17TH Floor, New York, NY, Printed in USA.

Dr. Manoj Saxena received Best Paper Award at 12th IEEE India International Conference, INDICON 2015 on Electronics, Energy, Environment, Communication, Computer, Control, (E3-C3) held during December 17-20, 2015 at Jamia Millia Islamia, New Delhi, India (Session – 1 ,Paper ID: 1570186951 entitled “Analysis of Cylindrical Gate Junctionless Tunnel Field Effect Transistor (CG-JL-TFET)”, Ajay, Rakhi Narang, Manoj Saxena and Mridula Gupta.)

Dr. Vernika Bhatia was awarded Best oral paper at National Conference on Plant Science Research: Looking beyond 21st century for Environmental & Agricultural Revolution (SPREA 2016) organized by Society for Plant Research & Department of Botany, Delhi University on 5-7 February, 2016 (Paper by Bhatia V, Bhattacharya R, Uniyal P L. entitled ‘Cuticle protein gene: a potent target for control of sap-sucking aphids through RNA interference’).

### **Research Projects**

Dr. Manoj Saxena has been granted a Major Research project funded by UGC in 2015 on “Physics Based Modeling and Simulation of Channel Material Engineered Ring FET for Sensing Applications” having a sanctioned amount of Rs. 17,89,000/-

Dr Jyoti Singh received a UGC –BSR Research start up grant in 2015 on “Solution-based synthesis of graphene quantum dots and study of the photoluminescent emission property” having a sanctioned amount of Rs. 6,00,000/-

Dr. Kapil Bohra received a UGC –BSR Research start up grant in 2015 on “Facile access to nucleobase-modified nucleosides *via* Diels-Alder reaction” having a sanctioned amount of Rs.6,00,000/-

Dr. Sunny Manohar received a UGC –BSR Research start up grant in 2015 on “Magnetically active ionic liquids: Design, synthesis and their application in organic transformations” having a sanctioned amount of Rs. 6,00,000/-

Dr. P.L. Meena has been granted a Minor Research project by UGC in 2015 on “Growth of one dimensional ZnO Nanostructures for Ethanol Sensing” having a sanctioned amount of Rs. 2,80,000/-

### **Students with distinctions**

Aman Saini of B.A. I year won the Bronze Medal as a member Indian Team in Archery (Compound- Men) in Asia Cup (Junior) Stage-I held at Bangkok, Thailand from 20th to 26<sup>th</sup> March, 2016.

Alpana Singh of B.A (H) English II yr stood 3<sup>rd</sup> in 28<sup>th</sup> Junior National Netball Championship, Chandigarh held during 25<sup>th</sup> - 28<sup>th</sup> June, 2015 and got 2<sup>nd</sup> Place in 33<sup>rd</sup> Senior National Netball (Men & Women) Championship, Greater Noida, U.P. held during 24<sup>th</sup> to 30<sup>th</sup> March, 2016.

Rachita Kochhar of BBS (2012-15) and Sandeep Kumar of B.Sc.(H) Electronics (2012-15 ) stood First in University Examinations held in 2014-15.

Deepavita Madan of BBS (2012-15) and Mani Bansal of B.Sc.(H) Comp. Sc. (2012-15 ) stood Second in University Examinations held in 2014-15.

Neha Malik of B.Sc.(H) Mathematics (2012-15) stood Third in University Examinations held in 2014-15.

### **Library Development**

Total Budget	:	Rs. 10,66000/-
Number of Books added	:	1414

### **Publications**

Lee Seoung-Ki, Lee Jae-Bok, Singh Jyoti, Rana Kuldeep, Ahn Jong-Hyun, (2015), “Drying-Mediated Self-Assembled Growth of Transition Metal Dichalcogenide Wires and their Heterostructures”, *Advanced Materials*, 27(28) 4142–4149.

Nair Remya, Jhingan Sanjay, Jain Deepak (2015) “Testing the consistency between cosmological measurements of distance and age”, *Physics Letters B*, 745, 64-68.

Solanki Renu, Kundu Aditi, Das Payal, Khanna Monisha (2015) “Characterization of antimicrobial compounds from *Streptomyces sp*”. *World Journal of Pharmaceutical Research*, 4(7):1626-1641.

Rani Nisha, Jain Deepak, Mahajan Shobhit, Mukherjee Amitabha, Nilza Pires (2015) “Transition Redshift: New constraints from parametric and nonparametric methods”, *Journal of Cosmology and Astroparticle Physics*, 012, 045-1to 045-24.

Geeta, Richa and Sharma ML, (2015), “Nutritional value of traditional wild vegetables used by the Kinnaurtribals of Himachal Pradesh, India”, *International Journal of Pharma and Bio Sciences*. 6(2): B551.

Bhatia V , Maisnam J, Jain A, Sharma K, Bhattacharya R (2015) “Aphid repellent pheromone E-β-farnesene is generated in transgenic *Arabidopsis thaliana* overexpressing farnesyldiphosphate synthase2”. *Annals of Botany*.115(4): 581- 591.doi: 10.1093/aob/mcu250.

Manohar Sunny, Pavan V. Satya, Taylor Dale, Kumar Deepak, Prija Ponnann, Wiesner Lubbe and Rawat Diwan S.,(2015),“Highly active 4-aminoquinoline–pyrimidine based molecular hybrids as potential next generation antimalarial agents”, *RSC Advances*, 5, 28171-28186.

Upamanya Mudita and Saxena Ratnesh, (2015) “Obtaining a Compromise Solution of a Multi-Objective Fixed Charge Problem in a Fuzzy Environment”, *International Journal of Pure and Applied Mathematics*, 98 (2), 193-210.

Tripathi Sachchidanandand Raghubanshi Akhilesh S.(2015) *Response of tropical dry forest tree species to resource variability*, Germany, LAP Lambert Academic Publishing , ISBN:978-3-659-74807-3.

Chhabra, T.N., (2015), Industrial Management, New Delhi, Sun India Publications, ISBN No. 978-93-85071-06-5.

### **Conferences organized/ Papers presented**

Department of Management Studies organized two days National Conference on “Emerging Issues in International Trade and Finance in Post-Recession Period” at Deen Dayal Upadhyaya College, February 22-23, 2016, Sponsored by UGC.

Department of Computer Science organised two days UGC Sponsored National Seminar on “A Step towards Soft Computing: Techniques and Applications” at Deen Dayal Upadhyaya College , March18-19, 2016 , Sponsored by UGC.

Department of Chemistry organised two days National Seminar on “Technical Terminology and Science Teaching” at Deen Dayal Upadhyaya College in Feb., 2015, supported by Commission for Scientific & Technical terminology, MHRD

Dr. Deepak Jain, presented a talk on “Model independent constraints on the transition redshift of the Universe”, at International Conference on Gravitation & Cosmology (ICGC) 2015 held at IISER, Mohali during Dec.14 - 18, 2015.

Dr. Anek Goel presented a paper on “Sports as a tool for sustainability and development” at the 11<sup>th</sup> International Session for Educators and Officials of Institutes of higher education held in Ancient Olympia from July 10-17, 2015.

**Faculty Strength** Permanent Faculty: 94; Ad hoc: 27

### **Financial Allocation and Utilization**

Sanctioned (Total)	: Rs 27,95,62,774
Recurring	: Rs 27,35,85,986,
Non recurring	: Rs 27,05,788
Sports	: Rs 32,71,000
Utilized (Total)	: Rs 21,36,37,919
Recurring	: Rs 21,36,37,919
Non-recurring	: Nil
Sports	: Nil

### **Placement details**

Number of students getting successful placements: 70  
Number of Companies/Industries came for campus recruitment: 5  
Number of repeat recruiters: 4

### **Extension and Outreach work**

Number of camps organized in the surrounding areas: 3  
Number of people enrolled/covered in the camps: 200  
Number of students who worked in the camps: 59  
Total number of hours dedicated to these camps: 2832

### **Journals subscribed**

No. of international journals subscribed (**5800**Online through **NLIST** +**01** paperback version)

Number of National journals subscribed (**200 Online** through **NLIST** + **33** paperback version)

### **Other significant information**

The college is shifting to its new Campus at Sector 3, Dwarka , New Delhi 78 from the coming academic session 2016-17. It is a state of the art multistoried building on a plot of 7.7 acres with many features of a green building. Rain water harvesting system and water recycling plant are already in place. The roof tops are intended to be used for generation of solar power. With passage of time, the college is planning to install a waste treatment plant for addressing the issues of bio-waste disposal.

The newly developed modern infrastructure will facilitate the teaching and learning atmosphere in the college. Some of the distinctive features of the building are: lecture halls/rooms, laboratories, library, computer center, auditorium, seminar rooms etc. fitted with latest audio visual aids and other equipment required for an institution of higher education. The sports facilities comprise of Indoor Squash Court, Badminton Court, Facility for Table Tennis, Carrom Board, Gymnasium and An archery range.

All the basic amenities are available with up-to-date facilities including parking, common rooms (boys and girls separate), a medical room and a guest house. The college will also provide hostel facility to students (boys and girls) with separate mess in addition to cafeteria.

## **DELHI COLLEGE OF ARTS & COMMERCE**

### **Major Activities and Achievements**

The college celebrated International Yoga Day, National Unity Day, Constitution Day and National Youth Day. Swachh Bharat Abhiyan was also commemorated by carrying out a cleanliness drive in the college. The college has been granted an Innovation Project by University of Delhi. Dr. Nasim Ansari (Economics) was awarded PhD from the Department of Economics, Aligarh University.

Mr. Bir Singh, Ms. Meera Malhan (Economics) Mr. Amit Kumar Yadav (English) and Mr. Lakhan Meena (History) are perusing their Ph. Ds. Under the supervision of Dr. V. B. Singh (Computer Science) one student was awarded PhD from the Department of Computer Science, University of Delhi. He is also supervising three PhD students from the same University. Dr. Rajiv Goel (Commerce), Dr. Shalini Saksena and Dr. Deepti Taneja (Economics), Dr. Dwivedi Anand Prakash Sharma (Hindi) and Dr. Anuradha Gupta (Mathematics) are also supervising PhD students from various universities in the country.

### **Outstanding Honors/Distinctions**

Dr. Neeru Kapoor, Associate Professor, Department of Commerce was honoured with the "Stree Udayami Award 2016" for outstanding contribution in the field of Higher Education by Believe India and Beti & Siksha Foundation in an event held at Gandhi Darshan, Rajghat, Delhi on 12th March 2016.

### **Research Projects**

Skill Development for Socio-Economic Empowerment of Marginalized Urban Women, INR 3,50,000, funded by University of Delhi.

UGC MHRD, 2014-2016 sanctioned a project to Dr. Anita Bhela of English Department with the amount of Rs. 6 lacs to prepare material for MHRD-UGC *e-Pathshala* project for M.A. English(Literary Criticism).

### **Students with distinction**

Padma Chorol, B A (Hons) English, 1st year represented the country in the IIHF-Ice Hockey Challenge Cup of Asia, held in Chinese Taipei.

Rohan Rathi, B.Com. (Prog.) 1st Year and Vikrant B.A. (Prog.) 1st Year secured two second positions in all India inter university aquatic championship 2015-16 held at Chandigarh, Punjab.

Kuldeep Bhatt, B A (Hons) 2nd yr has participated and won in more than ten debate and extempore competitions.

### **Library Developments**

Total Budget: Rs. 6,35,896

Number of Books and Journals Added: 1137

Internet Facilities Upgraded: Subscription of N-LIST programme, Electronic Books and Journals through DULS

### **Publications Books Edited/ Authored/ Chapters In Edited Books And Journals**

Kapoor, Neeru. (2016). *Advertising and Brand Management*. New Delhi, India: Pinnacle Learning,

Banerjee Smita, N. Ailawadi and M. Malhan. (2015). *Tawa'if and the Travelling Bioscope*. New Delhi, India: Apple Books.

Basra, Amrit. (2015). *Communal Riots in the Punjab, 1923 – 1928*. New Delhi, India: Shri Kala Prakashan.

Basra, Amrit. (2015). *Press and Politics in the Punjab, 1860-1905*. New Delhi, India: Shri Kala Prakashan.

Yadav, Neelam. (2016). The Lost Identity: Urban Villages in Delhi. *Dimensions of Higher Education*. Delhi: New Delhi Publishers.

Pathak, Jyotsna. (2016). 3 Idiots: Fantasizing Higher Education. *Dimensions of Higher Education*. Delhi: New Delhi Publishers.

Singh, V. B. (2015). Bug Prediction Modeling Using Complexity of Code Changes. *International Journal of System Assurance Engineering and Management*, 6(1), 44-60.

Saksena, Shalini and R. Sharma. (2015). “Deconstructing Barriers to Access Higher Education: A Case Study of Students with Disabilities in University of Delhi.” *The Delhi University Journal of Undergraduate Research and Innovation*, Volume 1 Issue 2, 316-337. <<http://journals.du.ac.in/ugresearch/pdf/Shalini%20Saksena%202020.pdf>>

Taneja, Deepti. (2015). Mosaics of Understanding Skill Development in India. *Indian Economic Journal*, Special Issue (December), 174-186.

Chichuan, Krushna. (2015). Explicating Liberal/Representative Democracy. *NAMToday*, Vol., XXXXIX, No.7, 15-19.

### **Conferences organized/attended International Seminars/Conferences/Papers presented**

‘हिंदी साहित्य में हाशिए का विमर्श: चुनौतियाँ एवं सम्भावनाएं’, 15 एवं 16 मार्च 2016, UGC

Forum on Contemporary Theory International Conference on *The Wider Significance of Nature*, 20-23 December 2015, Self funded. Paper Title: “Framing Nature: Landscape of Emotions in Ritwik Ghatak’s Partition Trilogy”

International Symposium on a Sustainable Future-2016 (ISSF-2016), 5th to 7th February 2016, self funded. Paper Title: “Economic Growth and Human Development in Indian States after two decades of Economic Reforms”

**Faculty Strength** Ad hoc 59 (Permanent)/ 32 (Ad-hoc)

**Financial Allocation and Utilization**

Grant sanctioned in Rs: 20,87,00000

Utilized in Rs.: 17,73,00000 (Tentative)

**Placement Details**

a) Number of students getting successful placements: **130+ (including internships)**

b) Number of Companies/industries coming for campus recruitment: **94+**

b) Number of repeat recruiters: **10**

**Number and name of Domestic/International (MoUs) signed with partners**

The College has One MoU signed with NSDC (National Skill Development Corporation) through Delhi University to impart Skill-based course to the students of the college.

**Extension and Outreach work**

NSS Unit of DCAC has continued its tradition of collaboration with Blood Connect and organized two blood donation camps - August 6<sup>th</sup> 2015, and February 3<sup>rd</sup> 2016. Both drives were very successful; Blood Connect was able to gather more enthusiastic volunteers and widen its blood donor base. Project TanZeal volunteers of the college have been participating in TanZeal which aims at the holistic development of the underprivileged children who come to the centre five days a week from 2:30 to 4:30. The children are not just taught basic subjects like Mathematics, English and Hindi, a lot of focus is given to moral education and personality development as well. Project TanZeal has regular outings where the children are taken to explore new places in Delhi. This year, the children were taken to visit Nehru Planetarium. The unit also conducted immensely successful clothes donation drive called the “Spread the Warmth Campaign” wherein college students were encouraged to donate their old clothes which were then distributed to the children and their families. Project Clean & Green, throughout the year conducted various cleanliness and plantation drives in and around the college campus. Prakriti: Environment Society of DCAC organized several plantation cum awareness drives in and around the college. It also conducted a drive and awareness rally for the proper e-waste management and around 20 kgs of e-waste was collected and given to Chintan, a collaborator in the drive. Volunteers organized a campaign ‘Say No to Crackers’ on the occasion of Diwali. Similarly during the celebration of Holi an awareness campaign was organized. With the aim to sensitize students towards environmental issues, in the month of January, volunteers painted the boundary wall of the college. The NCC Cadets of DCAC Unit have actively participated in Odd-Even transport drive organized by the Government of Delhi NCT. The enabling unit of the college. Equal Opportunity Cell organized various awareness drives and sensitization campaigns.

**Journals subscribed**

International Journals: 2 (paper back versions) and access to various Online International Journals provided through DULS & N-LIST programmes.

National Journals: 15 (paperback versions) and Online National Journals are accessed through DULS & N-LIST.



## DELHI INSTITUTE OF PHARMACEUTICAL SCIENCES AND RESEARCH

### Major Activities and Achievements

A total of Rs. 1, 87, 38,400 grant was sanctioned for research projects under various schemes like “Fast tract scheme for young Scientists”, “Utilization of Scientific Expertise of retired Scientists scheme” to Prof S.S. Agrawal, Dr. S.K. Gupta, Dr. S.R. Wakode, Dr. Meenakshi K. Chauhan and Dr. Rajani Mathur. Various events such as Pharmacist Day, Gurupurab, Sports Day, Freshers Day, Teacher's Day and Independence Day were organized by the college in 2015.

### Research Projects

Department of Science and Technology (DST) sponsored- UKEIRI PROJECT, 2015-2017, Development of herbal drugs for the prevention and treatment of Diabetic retinopathy and to elucidate their mechanism of action in experimental rat models, Rs 18, 24000/

DST sponsored, Govt. of India under ‘Utilization of Scientific Expertise of retired Scientists’ (USERS) scheme, Clinical ocular pharmacology and therapeutics, Rs.9, 66, 000/

DST sponsored –Fast tract Scheme for young Scientists, 2015-2018, Design, synthesis and biological evaluation of novel phosphodiesterase-4 (PDE4) inhibitors, Rs. 25 lacs

DST sponsored –Fast tract Scheme for young Scientists Science and Engineering Research Board (SERB), 2015-2018, Rivastigmine loaded nanostructured lipid carrier (NLC) integrated scaffolds transdermal patch system for the treatment of Alzheimer's disease and Parkinson's disease dementia, Rs. 19.38 lacs

DBT sponsored, 2015-2018, To Study the Intestinal Fructose Transport (via GLUT2& GLUT 5 transporters) in Rodent Model of Fructose Induced Childhood- overweight/obesity and Investigate the Preventive Potential of Medicinal Plants therein, Rs. 19, 38, 000/-.

### Students with distinction

Khushboo, B.pharm 1<sup>st</sup> year

Aarzo Thakur, B.pharm 2<sup>nd</sup> year

Neha Tyagi, B.pharm 3<sup>rd</sup> year

Kanika Jain, B.pharm 4<sup>th</sup> year

Shipra Malik, M.pharm 1<sup>st</sup> year

### Library Development

This forms one of the richest Pharmacy Library collections in India with over **17,000 +** books covering all branches of Pharmaceutical Sciences like Pharmaceutics, Pharmaceutical Chemistry, Pharmacology, Pharmaceutical Biotechnology, Pharmacognosy and Pharmaceutical Technology along with a good collection of books for basic sciences like Medicine, Pathology, Biochemistry and Microbiology. During the year 2015-16 the library has added 334 books. It has also subscribed to 8 international and 17 national journals.

### Publications

Archana Sharma , Vipin Kumar, Sunil Kumar, Dharam Pal Pathak, 2016, Synthesis, Characterization and biological evaluation of some imidazole bearing hydrazones as possible antimicrobial and anthelmintic agents. *Bulletin of Pharmaceutical Research*, 2016., I.F.-3.974

Archana Sharma , Vipin Kumar, Sunil Kumar, Dharam Pal Pathak, 2016, Synthesis, Characterization and biological evaluation of some imidazole bearing thiazolidin-4-ones as possible antimicrobial and anthelmintic agents. *Current Chemical Biology* , 9(2),113-122, I.F.-0.67

Satish Manchanda, P.K. Sahoo, Dipak K.Majumdar, 2016, “RP-HPLC method development and validation for the estimation of Acertazolamide in bulk drug and formulations with forced degradation studies”, *Der Pharmacia Lettre*, 8(1); 338-347.

Meenakshi K. Chauhan and Nidhi Bhatt, 2015, “A simple and modified method development of Vancomycin using HPLC” *JChrom. Sep. Tech*, Vol.6 No.7

Mahaseth R, Kumar R, Shagun, Sehgal R, Rajora P, Mathur R. 2015, Interaction of aqueous leaf extract of *Psidium guajava* linn. (myrtaceae) with muscarinic, serotonergic and adrenergic receptor systems using isolated tissue preparations: a pharmacodynamic study. *Indian J Pharm Sci*;77(4):493-99.

Aggarwal H, Kaur H, Saklani R, Saba N, Choudhary S, Dogra S, Srivastava S, Mathur R, Gupta SK. 2015, Prevalence of obesity and associated hypertension and diabetes in Delhi, metropolitan city of India. *Indian Journal of Medical Specialities*;6:82-7

Komal Sharma and Amrita Parle, 2015, The Most Effective and Safer Answer to Diabetes Mellitus: Alogliptin Benzoate, *American Journal of Pharm tech research*;5(4); 60-80

Ishpreet Kaur, Sharad Wakode, Harsharan Pal Singh, Satish Manachanda. 2016, “Development and Validation of a Stability- Indicating Reverse Phase HPLC-PDA Method for Determination of Canagliflozin in Bulk and Pharmaceutical Dosage Form. *PharmMethods*;7(1):1-9

Meenakshi K. Chauhan, P.K. Sahoo, A.s.rawat, A.sing, A. Bamrara, D. Sharma., 2015, “Biosomes: A novel approach to meet the challenges in oral immunization”. *Recent Pat Drug Deliv Formul*. [Epub ahead of print].

#### **Conferences organized/Papers presented**

“Fourth International Conference of Pharmacoeconomics & Outcomes Research” , Oct 31st, 2015, funded by DST, DBT and ICMR.

An International Conference on “Recent Advances in Heart Health And Research” in association with International Society for Adaptive Medicine, 22<sup>nd</sup> April, 2016 organised by DPSRU.

**Faculty Strength** Permanent: 11; Contractual: 05

#### **Financial Allocation and Utilization**

Grant Sanction in Rs. 8, 49, 00,000

Utilized in Rs. 6, 96, 47,266

#### **Placement Details**

(a) Number of Students getting successful placements:31

(b) Number of companies/industries coming for campus recruitment: 16

(c) Number of repeat recruiters: 8

### **Number and name of Domestic/ International (MoUs) signed with partners**

With Indian/ Foreign Universities

UKEIRI PROJECT: ONE - Research Collaboration between Aravind Medical Research Foundation, Madhurai and DIPSAR (University of Delhi) for ARPE-19 cell line.

### **Journals subscribed**

Number of International Journals subscribed (online + paperback version): 08

Number of National Journals subscribed (online + paperback version): 17

## **DESHBANDHU COLLEGE**

### **Major Activities and Achievements**

The distinguished faculty members of the college as well as students by their sheer academic excellence and honours helped put the name of institution at national and international level. Especially in the games and sports activities, the college teams retain State/University level titles in archery and volleyball; some of them have won top positions in national level sports meets too. In the field of science and humanities our teachers have won prestigious awards. Various Departments organized conferences/seminars/talks of significant interest inviting academicians and reputed personalities across the country ( Prof. D N Rao, IISC, Bangalore etc.) and abroad (Prof. Yasuo Kamata, Japan, Dr. Vivek Kumar IRRI, Philippines etc.) apart from undertaking numerous research projects and programmes. We are delighted to announce that from coming academic session we are offering "Add-on" courses as proposed by University of Delhi and have submitted our report for NAAC accreditation.

### **Outstanding Honours and Achievements**

Krishnan unni P, Deptt of English received Karoor Neelakanda Pillai Memorial award for fiction in Malayalam titled *Keralam: Oru Documenta*. (Received the award on January 28<sup>th</sup>, 2016 at Kottayam, Kerala).

Dr. Arati Barua , Deptt of Philosophy received Bharat Jyoti Award by IIFS ( India International Friendship Society in 2015 , 29<sup>th</sup> August. This award was presented to Dr. Barua in honour of extra-ordinary contribution and meritorious performance to Eminent Politicians, Social Workers, Educationists, Industrialists, and Sports Persons, for their contribution towards the society in her field of endeavours.

Dr. Arati Barua received Best citizens of India Award in 2015 - She is awarded with the “ Best citizens of India Award” by The International Publishing House (2015) in recognition to her exceptional caliber and outstanding performance in her chosen area of activity.

Dr. G C Pant received Sanskrit Samaradhak Samman by Delhi Sanskrit Academy in August,2015.

Dr. Indrakant K Singh was awarded RAMAN POST DOCTORAL FELLOWSHIP to pursue research work at University of Kentucky USA 2016-17 by University Grant Commission, Govt. of India.

### **Research Projects**

Dr. Indrakant K Singh is carrying out a DST Project , Title : Identification and characterization of genes involved in defense against *Sodoptera litura* from Maize(*Zeamays*), Date of start Nov, 2013. Duration three years, maximum five. Funding agencies: Science and Engineering Research Board (SERB), Deptt of Science & Technology, Govt. of India.

Dr. Pratibha Kumar is carrying out a DST- SERB start up Research Project “Synthesis of novel calixarenes functionalized magnetite nanomaterials and their potential applications in waste water treatment: Little solution to big Problems” (2016-2019).

Dr. Ranjana Seth is carrying out an International Atomic Energy Agency(IAEA) sponsored project (IAEA Research Contract No. 15852/RB, entitled, “Development of generic irradiation doses for phytosanitary treatment of mealy bug spp. infesting agricultural commodities”, under IAEA CRP D62008, *Development of generic irradiation doses for quarantine treatment*”, extended for 2015-2016 (final phase)

**Innovation Research Projects** DBC 302: Recycling of Organic Matter Coming from Religious Activities to Save Water Bodies of Delhi.

DBC 303: Silver Chalcogenide Nanoparticles for their Catalytic and Biomedical Applications.

### **Students with distinction**

Aatish Prashar from Fencing won Gold Medal in Haryana State Fencing Championship and managed his place in the team for National Championship. He also got selected for India camp and booked his berth at Delhi University Fencing Team as well for All India Inter-varsity Fencing Championship.

Akshay Kumar from Shooting won Silver at 59<sup>th</sup> National Shooting Championship and many other medals at different level.

College’s Archery Team lifted the Inter College Championship and retained Delhi State Archery Championship.

College’s Volleyball team bring laurel as well by claiming 1<sup>st</sup> position at Inter-college Volleyball Tournament.

### **Library Development**

This year the library has added 2757 books to its collection making a total collection of books to 1,08,350. The library subscribed to 37 journals/magazines and 15 daily Newspapers. NLIST Programme : National Library and Information Services for accessing e-journals and e-books UGC-INFONET for accessing e-journals and e-books DELNET for accessing Union catalogue of books and Union catalogue of journals.

### **Publications**

#### ***International***

Singh, A. BhartiSingal, Nath, O. and Singh I. K.\* (2015). Functional Annotation and classification of the Hypothetical Proteins of *Neisseria meningitidis* H44/76. *American Journal of Bioscience and Bioengineering* 3(5):57-64. doi: 10.11648/j.bio.20150305.16. \*Corresponding author.

Singh, A. Singh, S. and Singh I. K. (2016) Recent insights into the molecular mechanism of Jasmonate signaling during Insect-Plant Interaction. *Australasian Plant Pathology* 45:123–133 (DOI 10.1007/s13313-015-0392-1)\**Corresponding author*.

Dogra, Sakshi (2015) “Postcoloniality”: Exploring the Nexus between Nation-State and Global Capitalism in *Lapis Lazuli: An International Literary Journal*. VOL.5 NO.1 .ISSN 2249-4529

Kushwaha, Varsha (2015) Research paper entitled “Memory and Trauma: Reconstruction of History in The Novels of J.M. Coetzee and M. G. Vassanji” published in *The Commonwealth Review*

Pant, G C (2015) Published “BharavivirachitkiratarjuniyammahakavyameinSamajikPrashashan”, in VAAK-SUDHA (an international refereed quarterly research journal, ISSN :2347-6605), volume 4.

### **National**

Krishnan Unni P (2016) “ The Space of Ethics and the Ethics of ‘ political’ in M. Sukumaran’s Stories in *Social Orbit: Journal of Social Science*.Volume 1, Kerala: Farook College, ( ISSN: 2395-77189).

Krishnan Unni P (2016) “Do These Ruins Narrate our Pasts? An Examination of W.G. Sebald’s Narratives in *Disnarration: The Unsaid Matters*. Ed. Sudha Shastri. New Delhi: Orient Blackswan, ( ISBN: 978-81-250-6238-7)

Mohan Lalit (2015) “Madhyakaleen Hindi Kaviyitriyon ki Samajik Chetna”, New Delhi: Samakaleen Prakashan. ISBN-978-81-909927-94

Kumar Ashutosh (2016) *Global Issues in Environmental Discourse*, Atlantic Publishers, New Delhi. (ISBN: 978-81-269-2159-1)

Maurya, A. K. and Singh, I. K. and Monita (2015) Book Title “PARYAWARAN ADHYAYAN-EK PARICHAY” published by Book Age Publications, New Delhi. ISBN: 978-9383281-60-2.

### **Conference Organized/ Papers presented**

Singh A., Singh IK and Jain D (2015) presented a paper titled “Functional characterization of *Helicoverpa*-inducible pathogenesis-related protein 4A (PR-4A) from chickpea” in the PLANT BIOLOGY 2015 (The Annual Meeting of the American Society of Plant Biologists) held at the Minneapolis Convention Center in Minneapolis, Minnesota USA from 26th-30th July 2015. Inspire Internship Programme sponsored by DST, Govt. of India, Coordinator: Dr. Indrakant K Singh.

A Seminar Talk on “ Holistic View of Religions for the Harmony of Economy and Ecology : in the perspective Schopenhauer Research .” by Prof. Yasuo Kamata, Japan was organized by Dr. Arati Barua on behalf of the department of Philosophy, DBC & Indian division of Schopenhauer Society (IDSS), on 3<sup>0th</sup> October 2015 at Deshbandhu College, New Delhi. : (Hon) Member of Parliament, Shri Ramen Deka was the chief Guest.

**Faculty Strength:** The college has an impressive strength of 133 permanent and 77 ad hoc members in the teaching staff and 122 members in the non-teaching staff.

### **Financial Allocation and Utilization**

The Grants sanctioned 2015-2016 is: Rs 346,868,008.00 only and the grants utilized is : Rs 287,941,768.00 only.

### **Placement Details**

Number of students getting successful placement : 150 students

Number of companies/Industries coming for campus recruitment : 10 companies

### **Number and name of domestic/International (MoU) signed with partners:**

The college has signed MoU for Science SETU (a DBT-NII initiative) with National Institute of Immunology, New Delhi, 2015. Nodal Officer: Dr. Indrakant K Singh.

### **Extension and Outreach work**

The NSS Unit of Deshbandhu College has been very proactive in the session 2015-16. In the month of March 2015, it organized a cleanliness programme in Lansdowne ‘Uttarakhand’ with the mission ‘Make Mountains Plastic free’. A musical concert for National Unity and Integration was organized on 31 March 2015.

### **Journals Subscribed**

Number of International Journals the library subscribed is 4 (paper back) + J-Stor, Project Muse ( NLIST,UGC-INFONET, DELNET ) & the number of National journals is 33 (paper back).

### **Any other significant Information:**

Our college has submitted the College Report for accreditation to National Assessment and Accreditation Council (NAAC), an autonomous body funded by the University Grants Commission, Govt. of India.

## **DURGABAI DESHMUKH COLLEGE OF SPECIAL EDUCATION (VISUAL IMPAIRMENT)**

### **Major Activities and Achievements**

The college organized 2 day workshop on Autism Spectrum Disorder on 20-21 August, 2015. All teacher trainees attended the workshop. College organized one day workshop on Smart cane technique on 4<sup>th</sup> September, 2015. The college organized ‘Annual Sports Day’ on 20<sup>th</sup> February 2016. All visually impaired and sighted teachers trainees took part in Annual sports day.

### **Outstanding Honours/ Distinctions**

Dr. Swati Sanyal was a member of Expert Committee of RCI on Visual Impairment for prepares curriculum development for 2 Year B.Ed (Spl.-Edn.) and M.Ed (Spl.-Edn.) course of RCI. Participated in Formulating the New Education Policy organized by MHRD at Vigyan Bhavan, August,2015.Member for the Development of Tools for Project on Inclusive Education at DIET, Motibagh,21-22 December 2016.Rreceived“Guest of Honour” from AARP & NIEPMD at IIC, on 17thJanuary,2016.

### **Students with distinctions**

Swati and Ram Milan Yadav participated in Rajat Jayanti Antarmhavidyalaya debate competition organized by Dr. Bhim Rao Ambedkar College, University of Delhi on 1<sup>st</sup> February 2016.

### **Library development**

#### **BOOKS-**

Total Number of Books (Print + Braille)	4131
Total Number of Titles	2049
Print Journals on Special Education as well as Education	22
Rare Conference Proceedings/ Research Bulletins	
/Annual Reports etc	70+
Talking Books (MP3 Format & Daisy Format)	200+
E Resources (Online) Through N-LIST Programme under UGC- INFONET Digital Library Consortium	
E journals	6000+
E-Books	93000+

### **Publications**

Jha, N.K and Sanyal, S (2014) A study of problems faced by sighted teacher trainees in learning braille during B.Ed Special Education –Visual Impairment Course. Journal of Rehabilitation Council of India (JRCI) Vol.10, No. 1 &2,1-16 (Published in 2016).

Agrawal, P. (2015) Importance of Learning Social Skills in the life of a Student with Visual Impairment: An overview. Scholarly Research Journal, ISSN-2319-4766, Impact factor 4.889.

#### **Conferences organized/papers presented**

Dr. Swati Sanyal was speaker, National Seminar on Challenges & Dilemmas organized by Gitarattan Institute of Advanced Studies And Trng, 24<sup>th</sup> November, 2015.

Dr. Swati Sanyal was speaker by CIE, University of Delhi, National Symposium on Disability, Mental Health And Teacher preparation in March 2016

Dr. S.K. Dubey delivered lectures on Inclusive Education at DIET at Lajpat Nagar, New Delhi, August 2015.

Dr. Pubali Agrawal presented Paper on “The Role of Assistive Technology in Facilitating Inclusion of Children with visual impairment” in the National Seminar, organized by Shyama Prasad Mukherjee College, University of Delhion 10/03/2016.

Dr. Pubali Agrawal had a presentation in the Feed-back Session on ‘Effectiveness of Tactile Diagrams for Facilitating Learning of Children with Visual Impairment’, organized by IIT, Delhi on 20/11/2015.

**Faculty Strength** Permanent: 4

#### **Financial Allocation and Utilization**

Grant Sanctioned Rs. 32,32,210 (Thirty Two Lakhs thirty two thousand and two hundred ten) from The National Institute for the Visually Handicapped (NIVH), Dehradun.

Received amount Rs. 16,16,000

Yet to receive Rs. 16,16,210

#### **Placement details**

Number of students getting successful placement: **10**

Number of repeat recruiters- Students are getting jobs in various Govt. Schools as Special Educator.

#### **Number and name of Domestic/International (MoUs) signed with partners.**

With Indian/ Foreign Universities

College has close collaboration in terms of delivering Guest lectures, Paper setting, Examination, with Jamia Millia Islamia, IGNOU, DIET, NCERT, RCI, and NIVH etc.

#### **Journals Subscribed**

Number of international journals subscribed (online+ paperback version) (00 +01)

Number of national journals subscribed (online+ paper back version) (00+22)

## **DYAL SINGH COLLEGE**

#### **Major Activities and Achievements**

Installation of Grid connected 100 KW solar power panel and IGL gas pipeline connections in labs and canteen. The college collaborated with National Institute of Immunology in the SCIENCE SETU program aimed at encouraging research at undergraduate level. International Women’s Day was celebrated in collaboration with Bhagidari Jan Sahyog Samiti & in partnership with Dept. of Women and Child Development & NDMC. VIGILANCE AWARENESS WEEK was observed on the theme “Preventive Vigilance as a tool of good Governance”. A debate

competition on the theme “Role of Sardar Vallabhbhai Patel in Nation Building”. The CII YI YUVA DSC members organized various programs like “Vision of India”, “Delhi Youth Conclave”, “YI YUVA Leadership Camp”. 12 students were inducted as Gender Champions to facilitate an enabling environment where girls are treated with dignity & respect. A batch of 25 students allocated to each teacher to be their counsellor for emotional & academic issues.

### **Outstanding Honours/Distinctions**

The college was awarded one 1<sup>st</sup> prize, one 2<sup>nd</sup> prize and three 3<sup>rd</sup> prizes in the category of college lawn, garden, Rose Garden, cut flowers in the University Flower Show respectively. The college won Men’s Championship in Inter College boxing championship organized by the college including, 7 gold and 2 bronze in men’s section and 2 gold, 1 silver and 1 bronze in women’s section. The CII YI YUVA-DCS received an award for being the “Most Active Chaupal” all across the country at Young India National Summit – Take Pride 2016. Dr. Anita Goel received the Teacher Excellence Award for Innovation Project from University of Delhi. The Art and Culture society bagged numerous prizes in competitions like debate, photography, fashion show, Indian classical group singing, ad making, dance, creative writing etc. at various events.

### **Research Projects**

UGC, 2015-16, Parvasi Punjabi Sahitya, 9,974,400/-

DBT, 2015-16, Biodegradable nano-architecture platform convertible to florescent nano aggregates on Glutathione stimulus, Rs. 25 lac.

Innovation Project Delhi University, 'DS-301: E-museum Dev...' 'DS-302: Liquid-liquid Extrac Dyes...' 'DS-303: Invest. on Parameters of Higher Education...' 'DS-304: Degradation of Corci. Org. Dyes...' 'DS-305: Degradation of Pesticides...' & 'DS-306: Automated Solar Powered Car...', 2015-16, Rs. 31 lac.

NAS, 2015-15, Project for solar energy, Rs. 35,000/-

SCERB, 2015-2018, Biocensors for Arseinc deductions, Rs. 13,50,000/-

### **Students with distinctions**

University Science Meritorious Award, Mr. Mohit Yadav, B.Sc.(H) Zoology I year.

### **Library Development**

A well-equipped library with over 97,000 books, a large number of periodicals and journals and internet facility, IT based services to visually impaired student/faculty members.

### **Publications**

Arya, P.V. and H.S. Singh, (2015). Zoogeographical distribution an evidence of co-evolution: Freshwater fish parasitic monogenean Genus *Mizelleus* & its host diversity. *International Journal of Scientific Research*; 4(6), 589-590.

Chaturvedi, D.D. and A.K. Bhagi, (2016). Environmental studies. Delhi: Scholar Tech Press.

Goel, A., S. Taneja, A.P. Singh; I.S. Bakshi, S.C Gupta, D. Bajaj, S.K. Richhariya, H. Sharma, R. Bhardwaj, K. Tripathi, L. Ojha, A. Drall; T. Datta, M. Swami and M. Kumar, (2015). DUIT: A Mobile App Developed Using Interdisciplinary Approach. *DU Journal of Undergraduate Research and Innovation*; 1(1), 79-89.



Goel, R., S. Gopal and A. Gupta, (2015). Self- assembly of b-alanine homotetramer: formation of nanovesicles for drug delivery. *Journal of Materials Chemistry*, 3, 5849-5857.

Kumar, R., V. Dwivedi, N. Nayyar, H. Verma, A.K. Singh, P. Rani, D.L.N. Rao and R. Lal, (2015). *Parapedobacter indicus* sp. nov., isolated from Hexachlorocyclohexane (HCH) contaminated soil. *Int. J. Syst. Evol. Microbiol.*, 65, 129–134.

Nain, A.K. and M. Lather, (2015). Solute-solute and solute-solvent interactions of 1-histidine and 1-arginine in aqueous streptomycin sulphate solutions at different temperatures: A physicochemical study. *J.Mol. Liq.*, 211, 178-186.

Nain, A.K. and P. Droliya, (2016). Internal Pressure, free volume and excess thermodynamic properties of methyl acrylate + 1-alkanols (C4–C10) binary mixtures from ultrasonic speed and density data by using regular solution theory and theoretical estimation of ultrasonic speed by using scaled particle theory. *Indian J. Chem. A*, 55, 23-33.

Pandey, P.K., (2015) Non-standard Finite Difference Method for Numerical Solution of Second Order Linear Fredholm Integro-Differential Equations. *International. Journal of Mathematical Modelling & Computations*, 5(3), 259-66.

Pandey, P.K., (2015). Geometric Mesh Exponential Finite Difference Method for the Numerical Solutions of Non-linear General Two Point Boundary Value Problems. *Neural Parallel and Scientific Computations* 23,153-168

Singh, D., P.V. Arya, A. Sharma, M.P. Dobhal and R.S. Gupta, (2015). Modulatory potential of  $\alpha$ -amyrin against hepatic oxidative stress through antioxidant status in wistar albino rats. *Journal of Ethnopharmacology*, 161, 186-193.

#### **Conferences organized/ Papers presented**

Innovative Advance Research in Biomedical and Environmental dynamics, 9-10 Oct. 2015, sponsored by UGC & NMPB.

Reproductive Biology of Angiosperms, 16-17th March 2015, sponsored by ILL& UDSC.

Enhancing skills to face challenges in competitive world, 7<sup>th</sup> April 2015, sponsored by NDIM.

Chhikara, A., P. Kumar and M. Chopra, (2015). Co-delivery of Etoposide and Vorinostat using poly(ethylene Glycol) based biodegradable nanogels, Drug Discovery & Therapy World Congress Boston, 22-25 July 2015.

Gupta, A.(2015). b-peptide based nanostructures as delivery vehicles of antiparkinson's drug L-Dopa. Nanostructured Polymeric Materials and Polymeric Nanocomposites, 13-15 Nov. 2015, Mahatma Gandhi University, Kottayam, Kerala.

Abhay, R.K., (2016). Impact of Land Degradation on Agricultural Benefits in the Kendujhar Plateau, Odisha. IIG Congress and International Conference, 11-13 Feb. 2016, organized by Kurukshetra University.

**Faculty Strength** Permanent – 166; Ad-hoc – 88

#### **Financial Allocation and Utilization**

Grant sanction in Rs. 51,72,70,760.00

Utilized in Rs. 44,38,17,254.25

**Placement details**

Number of students getting successful placements: 210+

Number of Companies/Industries coming for campus recruitment: 35+

Number of repeat recruiters: 05

**Extension and Outreach work**

Number of camps organized in the surrounding areas : 05.

Number of people enrolled/covered in the camps : 100-150.

Number of students who worked in the camps: 20

Total number of hours dedicated to these camps: 5-8 hours/camp.

**Journals subscribed**

Number of international journals subscribed (*online + paper back version*) : 2 + 3800 e-journals and about 80,000 e-books available via NLIST program of UGC-INFLIBNET / MHRD.

Number of National journals subscribed (*online + paper back version*) : 20

**Other significant information (paragraph Format)**

The college has submitted the Self Study Report to NAAC for ranking of the college.

## **DYAL SINGH EVENING COLLEGE**

**Major Activities and Achievements**

Dyal Singh Evening College is a University maintained under-graduate institution established in 1958. In the academic year 2015-16 the college organized various activities such as ‘International Yoga Day’, ‘Youth Day’, ‘Blood Donation Camp’ and ‘Cleanliness drives’ (Swachhta Abhiyan). The college has an active Student Union which organized a numbers of programmes like, Celebration of Youth Day on the occasion of Birth Anniversary of Swami Vivekananda, Donation Drive launched: distribution of Clothes and Food, Cleanliness Drive, seminar on Good Governance and, Participation in Blood Donation Camp ( In collaboration with NSS). The NSS Unit of the college organized National Unity Day on the occasion of Sardar Patel’s Birthday. A rally was organized by NSS Volunteers to spread awareness about the increasing danger of diseases like dengue and Malaria. The College NCC unit participated in the Republic Day Camp 2016.22 NCC Naval wing candidates participated in the all India Naval Camps. The Equal Opportunity Cell of the college organized a cultural programme for differently enabled students.

**Outstanding Honours/Distinctions**

Best economic zone Prize to the college for its Innovation Project on Medical Tourism given by Delhi University

**Research Projects**

Innovation Project on ‘Medical Tourism’ undertaken by Dr. Bhawana Pandey, Dr. Poonam Gupta and Dr. Sajid Husain funded by University of Delhi for the year 2014-15, sanctioned and amount was 3 lakh.

**Library Development**

Air conditioned and semi – fully computerized library with net addition of 1944 books in the financial year 2015-16.

**Publications**

Sharma, P.K.(2015). Impact assessment of INR crunch on grocery shops of Phuentsholing (Bhutan). Asian Social Science, Canadian Center of Science and Education, Vol. 11( 28), ISSN: 1911-2017

Bhargav, R.K, (Co-Author)(2014).Information and communication technology(ICT): The financial inclusion enabler. India Streams Research Journal, New Delhi

Kumar, Sanjay(co-author)(2015).Financial Inclusion – A quantitative assessment of the benefits expected by Rural and Urban Class, Scholarly Research Journal for Inter-disciplinary studies, New Delhi

Bareja, Sushma (2016). Reverse Mortg Micro-finance: A Powerful Tool for Women Empowerment with Special Reference to India, Taxmann’s Corporate Professional Today, Vol.19,issue 5,318- 326

Gupta, Poonam(Co-author)(2015).Industry Wise Patterns of Financing of Fixed Assets by Corporate Sector in India. New Delhi,ISSN 0970- 3772

Pandey Bhawana (Co-authored)(2015).Role of Social media in Medical Tourism.International Research Journal of Management and Sociology and Humanities, New Delhi

Biswas, Brati(co-ed.)(2016).Language trough Literature.Primus Books, New Delhi

Abha Singh(2015)Global World of Shakespeare: Translations, Adaptations, Transformations. Prestige, New Delhi

Singh,Shivani(ed.)(2016).Governance :issues and challenges. Sage Publications, New Delhi

Tyagi Alka(2015).Review article on Gulzar’s “Green poem translated by P.K.Verma, Review Sahitaya Academy monthly Journal India Litureture,no.285New Delhi.

#### **Conferences organized/ Papers presented**

Two days commerce Conference on ‘Emerging Trends and contemporary issues in Finance’ was organized by the Commerce Department of the College on 29-30 March,2016 sponsored by UGC

A workshop on ‘Human Values and professional Ethics’ was organized and sponsored by the college wherein a lecture was delivered by Prof. R. R. Gaur of IIT Delhi on 29<sup>th</sup> February,2016

A Seminar on ‘40 years of emergency’ was organized by the Department of Political Science on 12 August,2015 funded by College

Paper presented on ‘Migration in urban setting :a case of Changjiji (Thimphu) Bhutan’, in an international seminar on ethnicity and development in South Asia, organized by SOEDS,IGNOU,21-22 Jan,2016

Paper presented on the topic ‘Investment portfolio optimization: a case study of NPPF (Bhutan)’ in a international conclave on innovations in Engineering and Management, Oman vision 2020:opportunities and challenges organized by WCAS, Oman 24-25,Feb.2016

**Faculty Strength** Total-86; Permanent-34;Temporary-2;Ad-hoc-50

#### **Financial Allocation and Utilization**

Grant received in Rs. 12, 2998760

Utilized in Rs. 13, 2805363

#### **Placement details**

Number of students getting successful placements-48

Number of Companies/Industries coming for campus recruitment-5

Number of repeat recruiters-2

#### **Number and name of Domestic/International (MoUs) signed with partners**

With Indian/Foreign Universities-1

One MOU was signed with Waljat College of Applied Sciences, Muscat, Oman for research and exchange and faculty development programme

With Indian/Foreign Companies/Industry- 1

One MOU was signed with Manav Bharti, an NGO in Utrakhand under the aegis of Centre for socio-economic Transformation headed by Dr. Bhawana Pandey

#### **Extension and Outreach work**

Number of camps organized in the surrounding areas-5

Number of people enrolled/covered in the camps-124

Number of students who worked in the camps-75

Total number of hours dedicated to these camps-120

#### **Journals subscribed**

Number of international journals subscribed (*online + paperback version*)-2

Biblio

Business Harvard

Number of National journals subscribed (*online + paperback version*)-22

#### **Other significant information (paragraph Format)**

NAAC Report was compiled and uploaded on the college website. The College Art and Culture Association won more than 100 Inter-College Prizes

## **GARGI COLLEGE**

#### **Major Activities and Achievements**

Gargi College had its first cycle of assessment by NAAC and the college scored an A grade. The NAAC peer team was highly appreciative of the research undertaken, the curricular and extra-curricular activities of the college. Many students have secured position in South Campus of DU. Many students have presented their work at National and International conferences. Our students Abhilasha Mathur and Dashleen Kaur have presented their research work on HIV AIDS, at Brisbane, Australia. This year our six faculty members, Dr. Vandana Luthra, Dr. Geeta Mehta, Dr. Indu Dutt, Dr. Indu Tucker Sidhwani, Dr. Sushmita Chowdhury and Dr. Veena Tucker received “Teaching Excellence Award for Innovation” by University of Delhi. Four faculty members from various departments have been awarded PhD degrees. Our faculty members have published more than 70 research papers and book chapters in this year.

#### **Outstanding Honours/Distinctions**

Gargi College scored an A grade with CGPA 3.30 during first cycle of assessment by NAAC. Our six faculty members received “Teaching Excellence Award for Innovation” by University of Delhi, Dr. Vandana Luthra, Dr. Geeta Mehta, Dr. Indu Dutt, Dr. Indu Tucker Sidhwani, Dr. Sushmita Chowdhury and Dr. Veena Tucker. Three Indo-UK conferences were organised at Gargi College and University College London, UK under the UGC-UKIERI collaboration. Under the Star College Scheme, Gargi College in association with Department of Biotechnology, organised an Interactive Session on “Foldscope” by Dr. Manu Prakash, Stanford University.

### Research Projects

University of Delhi funded the following projects for one year:

GC-301: Low cost and novel - Integrated Test, Measure & Analysis Station (ITMAS) for Teaching and Research: Advocacy for Open Sources: Paradigm changers for Science & Mathematics Education in India. Amount:4 Lakhs

GC-302: A Green and Sustainable Chemistry Laboratory...A Distant Dream... or a Reality. Amount: 5 Lakhs

GC 303: Ecobiotechnological approaches for biowaste utilization: Biopolymer and Biofuel.Amount:6 Lakhs

GC 304: दिल्ली विश्वविद्यालय के कॉलेजों में भारत स्वच्छता अभियान का तुलनात्मक अध्ययन Amount: 3.3 Lakhs

GC 305: DNA barcoding for grasses of Aravalli range in Delhi region and subsequent creation of database of DNA barcode sequence information: An essential study for formulating future conservation strategies. Amount: 5.5 Lakhs

### Students with distinctions

Shilpa Mohanty, Microbiology (H) was awarded Gold Medal for securing first position in University of Delhi. Ms. Shubh Gulati, student of Applied Psychology represented India in Soft Tennis World Championship, Delhi-2015. Ms. Dolly Sharma student of Hindi (H) attended India Camp for SAF Games 2016. Richa Nakoti and Dolly Sharma have represented the Delhi State in Junior National and Senior National Judo Competition respectively.

### Library Development

A workshop was organized for students and teachers on “Plagiarism and how to avoid it” during the month of April (8-9), 2015 in Gargi College. Library Orientation program was conducted for first year students during 22/7/15-28/7/15. WEBOPAC and facility of UGC INFLIBNET and access to DU Library Catalogue continued during the year. Gargi Library website was developed during the year for easy understanding and online access to Library resources and facilities. 734 books were added till 17/3/2016 making total of 72672 accessioned books in all. At present library has an asset of 217 CDs and subscribed to 47 periodicals and 10 newspapers. Electronic Resource Management package for e-resources: User control provided by NLIST. The library subscribes to a large number of Electronics Resources through UGC-Infonet which includes around 97000+ eBooks and 6000+ e-sources and University of Delhi connectivity which is available in the present library with Wi-Fi Library computer lab. Approximately books 171071 were consulted and loaned by users, which include consultation of ref. and general sec. use and excludes use of loose issues of periodicals.

### Publications

Sarin, B., Martin, J.P., Chrungu, B. & Mohanty, A. (2015).Chloroplast DNA variation in wild Brassicas and their implication in breeding and population genetics studies.*Scientifica*. doi.org/10.1155/2015/952395.

Rajendran, A., (2015). *(Un)familiar Femininities: Studies in Contemporary Lesbian Indian Texts*. Delhi: Oxford University Press.

Dev, A.N. (2015). *The Trees in a Single Orange – Memories of Home in the Poetry of A. K. Ramanujan*. Critical Essays on Indian English Poets edited by Joseph Dorairaj and Hema Raghavan. New Delhi: Words Worth India. ISBN: 978-93-82955-04-7.

Jain, M. (2016).*Sati- Evangelicals, Baptist Missionaries, and the changing Colonial Discourse*.Aryan Books International. (ISBN : 978-81-7305-5522-2)

Shah, A.H., Rawal, M.K., Dhamgaye, S., Komath, S.S., Saxena, A.K. & Prasad, R. (2015). Mutational Analysis of Intracellular Loops Characterizes Cross Talk between Nucleotide Binding Domains and Intracellular Loops of Yeast ABC Transporter Cdr1p. *Scientific Reports* 5:11211.

Das, S. (2015). Nanofluids for Heat Transfer: An Analysis of Thermo-Physical Properties. *IOSR journal of Applied Physics*, 7(5), 34-40.

Luthra, V., Singh, A., Pugh, D.C. & Parkin, I. (2015). Ethanol sensing characteristics of Zn<sub>0.99</sub>M<sub>0.01</sub>O (M=Al/Ni) nanopowders. *Physica Status Solidi A*, 213 (1), 203-209.

Pugh, D., Luthra, V., Singh, A. & Parkin, I. (2015). Enhanced gas sensing performance of Indium doped Zinc Oxide nanopowders. *RSC Advances*, 5 (104), 85767 -74.

Parashar, R.K., & Negi, B. (2015). *Chemistry of Heterocyclic compounds*. Ane Books Pvt. Ltd. and CRC Press Taylor and Francis Group. ISBN: 978-146-6517-13-4.

Chugh, S., Jaggi, M., & Rao, U.I. (2015). *In Vitro* rapid plantlets regeneration of orchid hybrid Cattleya Summer Song. *Phytomorphology* 65 (3&4), 95-108.

#### **Conferences organized/ Papers presented**

Science Departments of Gargi College in association with Department of Biotechnology, Government of India, organized an Interactive Session on “Foldscope” by Dr. Manu Prakash, Stanford University.

Geeta Saini presented paper in the International conference on Material Science and Technology ICMT-2016 held from 1st- 4th March 2016 at conference centre, University of Delhi.

Aakriti Chaudhry presented paper at the 3rd International Conference held at Sri Guru Gobind Singh College of Commerce on 4th -5th February, 2016 for the paper titled “Role of Social Media on Consumer’s Purchase Decision Making Process”.

Neha Sarin, Sachin, Ajay. K. Arora, Richa Jain, Ivan P. Parkin, Vandna Luthra (2015) “Ethanol sensing performance of Strontium titanate” at 3rd Indo-UK conference on Recent Advances in Chemical Sensors (25-26th Aug 2015).

Ms. Abhilasha Mathur presented a paper on the topic “Characterizing clade-specific virus-host responses in clinically asymptomatic and AIDS presenting subjects” by, at the World STI & HIV Congress, 2015, held at Brisbane, Australia, September, 2015.

**Faculty Strength** Permanent: 157; Temporary: 01; Adhoc: 64

#### **Financial Allocation and Utilization**

Grant sanction in Rs.(in lakhs)-**Maintenance grant Rs. 3674.27**

Utilized in Rs. (in lakhs)-**Maintenance grant utilized Rs. 3708.84**

#### **Placement details**

Number of students getting successful placements: 64

Number of Companies/Industries coming for campus recruitment: 15

Number of repeat recruiters: 8

### **Number and name of Domestic/International (MoUs) signed with partners With Indian/Foreign Universities**

Gargi College has signed a MoU, with National Institute of Immunology for interaction of scientists of the Institute with the students and faculty members.

### **Extension and Outreach work**

Number of camps organized in the surrounding areas.

This year, NSS organized sessions with several NGOs including MAD, 3HS, Blood Connect, Youth for Seva, Save the Quest, Stree, Sathya Sai Seva Organization, Pinkathon and Teach for India. Apart from this, Annual flagship events like Blood Donation Camp, NGO Diwali Mela, Friendship Day and Children's Day were organised. The Blood Donation camp saw 133 successful donations and broke all the previous year's records.

Number of people enrolled/covered in the camps: > 200 students

Number of students who worked in the camps: >200

### **Student numbers under exchange programme**

Undergraduate inbound/outbound Exchange Students: 60 students in July 2015 and 50 students in September 2015 from UK visited Gargi college under the UKIERI program.

Graduate/Postgraduate inbound/outbound Exchange students: Nil

### **Journals subscribed**

Number of international journals subscribed (*online + paper back version*): 06

Number of National journals subscribed (*online + paper back version*): 41

## **HANSRAJ COLLEGE**

### **Major Activities and Achievements**

College has been endeavoring to improve Infrastructural support and enable students to undertake effective teaching & get sufficient research facility. In 2015-16, many projects were undertaken on priority basis. Major achievements included Installation of a central R.O. plant of 3000 LPH; 50 new computers in computer lab & 6 in enabling unit established for differently abled students; Swiss electronic scoring system in the shooting range, display boards & signages all over the college. Additionally, activities like beautification and construction of a fountain in front lawn; Wi-Fi connectivity in entire College; initiation of addition of 40 new CCTV cameras of latest technology; construction of departmental rooms and new toilets; markings for vehicles; providing latest software for accounts in office, library & hostel and necessary number of additional dustbins; establishment of the skill development centre etc. were also taken up during the period.

### **Outstanding Honours/Distinctions**

The college was ranked among top 5 colleges in India by India Today.

The college has received special grants under the aegis of 'Star College Scheme' sponsored by Department of Biotechnology, Govt. of India.

In a pledge to uplift the underprivileged, a unique concept of the college NSS, "Padhaku", educates the needy students from the nearby slums, within the college premises.

In order to imbibe Indian values and ethics in the youth, the college has a dedicated 'Yagya Shala', where Havan is performed on the first Tuesday of every month, with participation from all segments of the college.

To instill the beliefs, principles and teachings of Swami Vivekananda, Universal Brotherhood Day is celebrated every year in the college.

### Research Projects

हिंदी सिनेमा में सहित्यिक विमर्श (1990 से अद्यतन) [Hindi Cinema Mein Sahitiyik Vimarsh (1990 Se Adhyatan)];funded by UGC in 2015 granted to Dr Rama. Amount sanctioned Rs. 12,99,600/-.

Autotetraploid induction, ensuing heteroploid hybridization and associated rapid DNA changes as a possible means of genetic improvement of diploid *Tinospora cordifolia* and *T. sinensis* funded by National Medicinal Plant Board (NMPB), Govt. of India for three years 2014-2017 granted to Dr. Vijay Rani Rajpal. Amount sanctioned: Rs. 19.360 Lakhs (HRC), Rs. 8.613 Lakhs (AMITY).

XBRL-based Corporate Disclosure Practices in India- Opportunities and Challenges funded by UGC for three years 2013-2016 granted to Dr. Manjit Saggi. Amount sanctioned: Rs. 7.0 Lakhs

Evaluation and analysis of four medicinal plants for their pollution load in wild, cultivated and controlled conditions and response of their bioactive constituents in terms of yield and quality funded by UGC for three years 2015-2018 granted to Dr. Monika Koul. Amount sanctioned: Rs. 9.81 Lakhs

Cloning and functional characterization of Helicoverpa –inducible Hevein-like-protein from chickpea funded by DST-SERB for three years 2013-2016 granted to Dr. Archana Singh. Amount sanctioned: Rs. 18.25 Lakhs

### Students with distinctions

Deepak Kumar Jaiswal (M.A. Hindi) : Gold medal  
Abhishek Patel (B.A. Hons. Sanskrit) : Gold medal  
Pooja Mittal (B.Sc. Hons. Mathematics) : Gold medal  
Sahil Goel (M.Sc. Physics) : Gold medal  
Arjun Mann (B.Com. Hons. 1<sup>st</sup> year) : Gold medals in Trap Shooting, Junior World Cup organized in Finland, Asian Shooting Championship in Doha, and Shooting Championship in Jaipur

### Library Development

Number of Books : 1, 32, 225  
Journals / Magazines : 22 / 43  
Book Bank : 8844

### Publications

Batra, R. & Vashistha, S. (2016). A Generalized Contraction Principle Under w-Distance for a Partially Ordered Metric Space. Bull. Malays. Math. Sci. Soc.. <http://dx.doi.org/10.1007/s40840-016-0347-x>

Batra, R., Vashistha, S., & Kumar, R. (2016). Fixed points for  $(G, \phi)$ -contractions in vector metric spaces endowed with a graph. FILOMAT.

Biswas, S., Koul, M., & Bhatnagar, A. (2015). Effect of arsenic on trichome ultrastructure, essential oil yield and quality of *Ocimum basilicum* L. Medicinal Plant Research, Bioline Publishers, Canada, 5(6), 1-7. <http://dx.doi.org/10.5376/mpr.2015.05.0006>



Huten, A. (2015). BIOLOGY PROGRAMME FOR S5. Rwanda Education Board, RWANDA.

Kumar, R., Pal, S. & Arvind (2015). Design of identity based cryptographic schemes from pairing. International Journal Of Mathematical Sciences And Applications, 5(1).

Malhotra, M. (2015). Application of Input-Output Models to Spillover Effects of Foreign Direct Investment in Indian Manufacturing Industries. Business Perspectives, 14(2), 10-21.

Riyaz, A. (2015). The Concept of God in Gandhian Philosophy. International Journal Of Philosophy And Yoga, 3(9-10), 33-37.

Riyaz, A. (2015). Wittgenstein's and islamic concept of religious belief. Idea, 27, 361-372. <http://dx.doi.org/10.15290/idea.2015.27.20>

Sen, N. (2015). Family, School and Nation: The Child and Literary Constructions in Twentieth Century Bengal.. New York and London: Routledge.

Singh, I. (2016). Nanobiotechnology: applications and risks in human-health sector. Journal Of Materials Nanoscience, 3(1).

#### **Conferences organized/ Papers presented**

Dr. Mukund Madhav Mishra organized "International Workshop on Operator Spaces" during December 7-9, 2015; Funding Agency: NBHM and UGC SAP

Dr. Amit Sehgal organized "Integrating ICT in Teaching and Learning" workshop sponsored by Department of Biotechnology, Ministry of Science and Technology at Hansraj College, Univ. of Delhi on 11-18 December, 2015.

Dr. Lokesh Chandra Mishra organized a workshop on "Bioinformatics" in Department of Zoology, HansRaj College; Funding Agency: Department of Biotechnology (Govt. of India) under Star College Project on 28th September, 2015.

Dr. Aamir Riyaz presented a paper in a conference entitled, "Buddhist Ethics of Pancha Sheela: A Solution to Present Day and Future Problems" on 4-5 December 2015 at Bixsu University of Sri Lanka.

Dr. Nivedita Sen presented a paper 'Reshaping Alice for a Bilingual Reader' at Alice Through the Ages, a conference on Alice in Wonderland on its 150th anniversary at Homerton College, University of Cambridge in September 2015.

**Faculty Strength** Permanent: 126; Temporary: 02; Ad-hoc: 53

#### **Financial Allocation and Utilization**

Grant sanction in Rs. : 4,068 (In Lakhs)

Utilized in Rs. : 3,581 (In Lakhs)

#### **Placement details**

Number of students getting successful placements : 165

Number of Companies/Industries coming for campus recruitment : 62

Number of repeat recruiters : 15

### **Extension and Outreach work**

Number of camps organized in the surrounding areas : 04  
Number of people enrolled/covered in the camps : 90  
Number of students who worked in the camps : 42  
Total number of hours dedicated to these camps : 48x24

### **Journals subscribed**

Number of international journals subscribed (*online + paper back version*) : 10  
Number of National journals subscribed (*online + paper back version*) : 12

## **HINDU COLLEGE**

### **Major Activities and Achievements**

Hindu College celebrated its 117<sup>th</sup> Founder's Day on 15 February 2016. Dr. Arvind Panagariya, Vice-Chairman, Niti Aayog was the Chief Guest on the occasion. Some notable activities are: Talk by Dr. Subramanian Swamy on "How to Match Indian Higher Education with Global Standards", *Vaktavya'16* – The Annual Conclave of Hindu College, *Mushairah* 2016 – the annual literary festival, Mecca – The Annual Cultural Festival, *Van Mahotsav* tree plantation drive, Performance by The Indian Army Pipe Band, Screening of a Documentary Film *Tirangaa, Swachch Bharat Abhiyan*, *World Yoga Day*, 'Teach For India' Campaign, 153<sup>rd</sup> Birth Anniversary of Swami Vivekananda and Broadcast of the Address Delivered by Honourable Prime Minister, Shri Narendra Modi Ji at The Startup Conference for Entrepreneurs in India on 16<sup>th</sup> January 2016.

### **Outstanding Honours/Distinctions**

Dr. Manoj Kumar Varshney, Assistant Professor in Statistics, received award as "an emerging youth in the field of Education & Social Work" in Delhi and National Capital Region from former Chief Election Officer of India Hon'ble GVG Krishnamurthy through an NGO.

Dr. Soma M Ghorai – Assistant Professor in Zoology was given **best presentation award for paper entitled** "Exploring the lizard immunome: *de novo* sequencing of splenic transcriptome and clustering of immune-relevant genes", Manisha Priyam and Soma M. Ghorai **in the 13<sup>th</sup> ISDCI (International Society of Developmental and Comparative Immunology) Congress held at Murcia, Spain from 28<sup>th</sup> June to 10<sup>th</sup> July, 2015. She also won best poster award for her poster entitled "Evolutionary Conservation of Type-1 IFNs (IFN- $\alpha$  and IFN- $\beta$ ) in the squamate, *Hemidactylus flaviviridis*" at the 25<sup>th</sup> CEIP, 2015 Comparative Endocrinology and Integrated Physiology conference in Kerala, August, 2015.**

### **Research Projects**

The College has been awarded a total of eight Interdisciplinary Innovation Projects funded by University of Delhi in the current academic session 2015-16, under these 24 faculty members from the Departments of Botany, Chemistry, English, Hindi Mathematics, Physics, Zoology and the Librarian along with 80 students are pursuing active research work. Some of which are mentioned below:

University of Delhi, 2015-16, Nutraceutical evaluation of some green microalgae, Rs.5,50,000/-

University of Delhi, 2015-16, Development of Theranostics(therapeutic plus diagnostic) based product with Curcumin-Oligonucleotid-Rare earth metal based Nanoparticle probes as MRI Contrast agent, Rs.6,00,000/-

University of Delhi, 2015-16 Design and Implementation of Electronic Laboratory Manual cum Notebook (ELMN), Rs.4,50,000/-

University of Delhi, 2015-16, Thermodynamic, electrochemical and quantum chemical investigation of some PEG based polyurethanes as corrosion inhibitors for mild steel in Cyclohexane Propionic Acid, Rs.5,00,000/-

University of Delhi, 2015-16, Effective Use of ICTs and other Innovative Ways to Enhance Learning in Affordable Private Schools, Rs.4,00,000/-

### **Students with distinction**

Out of 920 students who took the various final University examinations, 734 were successful, giving a pass percentage 79.78%. 637 or 69.23% were placed in First Division, 90 or 9.78% obtained Second Division and only 7 or 0.76% got a Third Division. At the Post-Graduate level, out of 381 students who took various final University examinations 291 were successful, giving a pass percentage of 76.37%. Out of these 223 or 58.53% were placed in First Division, 67 or 17.58% percentage obtained Second Division and only 1 or 0.26% got Third division.

The following students got First Position in Delhi University examination held in May/June 2015.

Bhuvnesh	B.Sc.(H) Physics
Priya Modi	M.Sc. Chemistry
Mayuri Mukherjee	M.Sc(Final) Botany
S.M. Rizwanah	M.A(Final) Philosophy

### **Library Development**

Total Budget 9,25000/- + 9,25000/- (Library Development fee)

No. of Books and Journals added 2229

Internal facility upgraded: Wifi facility made available in the Library.

### **Publications**

Nirmalya Ganguli, Neerja Wadhwa, Abdul Usmani, Neetu Kunj, Nilanjana Ganguli, Rajesh Kumar Sarkar, Soma M. Ghorai and Subeer S. Majumdar (2016). An efficient method for generating a germ cell depleted animal model for studies related to spermatogonial stem cell transplantation. *Stem Cell Research and Therapy*, 7:142

Manisha Priyam, Mamta Tripathy, Umesh Rai, Soma Mondal Ghorai (2016). *Veterinary Immunology and Immunopathology*. 172, 26-37.

Jitender M. Khurana, Devanshi Magoo, Kiran Dawra (2015), Nickel boride mediated cleavage of 1,3-oxathiolanes: a convenient approach to deprotection and reduction. *Monatshefte für Chemie - Chemical Monthly*, Page 1.

M.A Devasia, (2016) Play, theatre and Non-dualism, *Philosophy East and West: A Quarterly of Comparative Philosophy. Special Issue: Theater and Character Cultivation in Three Great Philosophical Cultures*. 66(1), 5-12.

Ananya Barua (2015) MENO: A Study on Plato's Opinion and Knowledge while understanding the concept of virtue (arete). *Crystal Search*, 2(1),2394-3467.

Manoj Kumar Varshney (2015), "A Joint Modeling Approach to Assess the Impact of CD4 Cell Count on the Risk of Loss to Follow up in HIV/AIDS Patients on Antiretroviral Therapy. *Journal of Statistics and Applications*,5(3, 99-108. Ananya Barua (2015) The Bipolarity of Social Reality: A Buddhist Take from Violence. *FLAMBEAU -An advance Step of Multidisciplinary Research Studies*, 2(2), 2393-8226.

Sudershan kumar, Lukman O. Olasunkanmi, Indra Bahadur, Hemant Verma, Gurmeet Singh, Ime B. Obot, & Eno E. Ebenso (2016.) Experimental and theoretical studies on inhibition of mild steel corrosion by some synthesized polyurethane tri-block co-polymers. *Nature Scientific Reports*, 6:30937.

Lalit Kumar, Ishpal Rawal, Amarjeet Kaur, S. Annapoorni (2017) Flexible room temperature ammonia sensor based on Polyaniline C. *Sensors and Actuators B: Chemical*. 240, 408-416.

Anu Beniwal, Jarnail S. Bangruwa, Rajan Walia, Vivek Verma, (2016) A systematic study on multiferroics  $\text{Bi}_{1-x}\text{Ce}_x\text{Fe}_{1-y}\text{Mn}_y\text{O}_3$ : Structural, magnetic and electrical properties, *Ceramics International* 42, 10373–10379.

Anu Beniwal, Jarnail S. Bangruwa, Balesh Vasisth, S. P. Gairola, Vivek Verma, (2016) “Modification in Structural, Electrical and Magnetic Properties of Pr Doped Bismuth Ferrites” *International Journal of Engineering Research & Technology (IJERT)*, 5(03), 2278-0181.

### **Conferences organized/attended/Papers Presented**

Nuclear Power Driving the Nation Ahead (Workshop), 23-24 August, 2016, Department of Physics, Hindu College.

One Day Symposium “Molecules to Materials: Challenges and Opportunities” 17 March, 2016, Department of Chemistry, Hindu College.

One Day Workshop (Let’s fight the Mosquitoes Might), 21 October, 2016, Department of Zoology, Hindu College.

Dr. Shalini Suryanarayan, Associate Professor in Sociology presented the following papers entitled: “The Home and the Work: The ‘Cul-de-Sac’ for the Corporate Woman - A Sociological Study of Life-Work Stresses and Burnout among Women Managers in the IT Sector in Karnataka”, at the ‘First Mysore International Conference of the Medical and Social Sciences’, University of Mysore, November 24-27, 2015.

“Gender Equity in the Workplace: Are Women Getting Empowered? A Critical View of the IT Sector” at the ‘International Conference on Demographics – Dividend or Disaster?’ organized by Jain University Bengaluru in collaboration with iNurture Education Solutions Pvt. Ltd., January 29-30, 2016.

“How Green is my Valley? An Evaluation of the Development of Karnataka State in the Wake of the Information Technology Revolution”, at the ‘41<sup>st</sup> All India Sociological Conference’, Bhubaneswar, December 27-29, 2015.

Dr. Jagmohan, Assistant Professor in Sanskrit presented the following paper: “Upanishadon ke Adrarsh Vakyaun mai Jivan Prabandan ke Sutra” at national conference held at Hindu College, University of Delhi, 22-23 April, 2015.

**Faculty Strength** Total Number of Teaching faculty sanctioned - 141+06 (2nd Tranche) = 147

Total Number of Teacher(s) working on Ad-hoc basis: 27

### **Financial Allocation and Utilization**

Grant sanction in Rs.:- 31,76,72,760/-

Utilized in Rs.:- 30,46,44,525/-

### **Placement details**

Number of students getting successful placements - 70

Number of Companies/Industries coming for campus recruitment - 59

Number of repeat recruiters – 15 to 20 (Updated till April 2016)

**Number and name of Domestic/International (MoUs) signed with partners**

With Indian/Foreign Universities – Ongoing MoU with National University of Singapore, Singapore

With Indian /Foreign Companies/Industry - One

**Science Setu**

The College has an MoU with one of India’s premier research institutes, National Institute of Immunology, Department of Biotechnology for the “Science Setu Programme”, that aims to bridge the gap between undergraduate students and science, and hence contribute to the national goal of encouraging young minds to take up science as their career option.

**Extension and outreach work**

Extension activities in the College are organised through the NSS, NCC and some other societies prominent being the environment society (*Panchtatva*), The Equal opportunity Cell (*Ankur*), Women’s Development Cell (WDC), etc.

**Number of camps organized in the surrounding areas.**

NSS: Health Camp, Cleanliness Drive, Blood Donation Camp, Tree Plantation, Pre-RD Camp, etc.

NCC: National Integration Camp. Training Camps, Yoga Camp, Swimming Camp, Nau-Sainik Camp, Annual Training Camp, Republic Day Camp. Prime Minister’s Rally.

**Number of people enrolled/covered in the camps**

NSS: more than 200 enrolled

NCC: 48

**Number of students who worked in the camps**

NSS: over 180 attendance in various camps

NCC: 16 in Swimming Camp

23 cadets participated in Combined Annual Training Camp

2 in RD Camp

1 in PM’s Rally

2 in Nau-Sainik Camp, Karwar.

**Total No. of hours dedicated to these camps**

Swimming Camp: 30 days

Ship Attachment Camp: 10 days

Republic Day Camp: 60 days

PM’s Rally Camp: 10 days

Combined Annual Training Camp: 10 days

Nau-Sainik Camp: 12 days

**Student numbers under exchange programme**

Undergraduate exchange students: 3.

The following students came to Hindu College under Exchange Programmes.

Mr. Stephan Goertler – University of Heidelberg- B.Sc(H) Physics.

Mr. Alexander Forse – U.B.C Canada – B.A(Hons.) Economics

Mr. Jens Reider – University of Heidelberg – B.A(Hons.) Economics

The Ministry of Youth Affairs and Sports, Government of India, under its youth Exchange programme, organized a visit of a 22-members Korean Students' delegation to Hindu College on 5 August 2015. The programme, hosted by the Hindu College Parliament aimed to promote exchange of ideas, values and culture amongst the youth of both the countries.

### **Journals subscribed**

A number of International journals subscribed (online + paperback version) (Online Access through University of Delhi and INFLIBNET).

A number of National journals subscribed (online + paperback version) (Online Access through University of Delhi and INFLIBNET)

The Library is also subscribing 18 Newspapers and 32 Journals/Magazine.

## **HOLY FAMILY COLLEGE OF NURSING**

### **Major Activities and Achievements**

Students started the academic session with a fresher party and talent show. Before clinical posting in hospital, Lamp Lighting Ceremony was conducted where the students took nurses pledge to care effectively for the patients. Elections of (SNA) Students Nurses' Association body were held in September 2015. SNA is involved in assisting the co-curricular activities of students and helping the students. Various National and International Health days were celebrated.

Hepatitis Day was celebrated in Holy Family Hospital on 4th December 2015 and students participated in Skit & Poster Competition organized by ILBS and won 1st and 3rd prize respectively. From 17th to 18th October 2015 students of college participated in MTNL Health Mela and Medico – Masti organized for all medical students in MAMC, Delhi. Students won 1st prize in Debate competition.

College celebrated various festivals like Diwali, Christmas by organizing cultural programs.

Health related important National and International Days were celebrated.

On 1st December 2015, students organized a program to spread awareness about HIV/ AIDS.

Annual fete was conducted in Holy Family Hospital on 29th January 2016.

On World Health day Celebration Students of college participated in poster & skit competition (April 7th) organized by Army hospital and in fusion dance, Quiz competition organized by RML hospital. Various activities like role play, exhibitions and health education on "Beat Diabetes" done in hospital and urban slums.

On 1st December 2015, students organized a program to spread awareness about HIV/ AIDS in hospital and urban slum. On March 24th conducted TB awareness program in RHTC, Najafgrah.

In the month of March, students spread awareness about Tuberculosis in the community.

Annual sports week was celebrated in February.

Dengue day was celebrated on 16th May 2016. Students of college participated in Poster competitions.

Schizophrenia day was celebrated on 23rd of May 2016. Students conducted awareness classes to the public including skit.

Students participated in various unit level and state level competitions organized by SNA.

First Batch of B.Sc. (Hons.) Nursing completed the course in May 2015.

### **Research Projects**

A Descriptive study to assess the Knowledge and attitude regarding stem cell and Umbilical cord blood banking among antenatal mothers attending antenatal OPD in a selected Hospital of New Delhi. A comparative study to assess the knowledge and health seeking behavior related to obstetric morbidities among antenatal mothers of selected hospital of New Delhi.

A Descriptive study to assess the Knowledge and practice regarding prevention and Management of Anemia among antenatal women attending antenatal Clinic of a selected private hospital in Delhi.

A Descriptive study to assess the Knowledge of mothers regarding behavioral problems among children in Pediatric unit of selected hospital of New Delhi.

A Pre-experimental study to assess and evaluate the effectiveness of planned teaching Programme regarding antibiotic therapy in terms of Knowledge and attitude among the nursing staff of selected hospital of New Delhi.

A study to assess the knowledge of adult women on reproductive tract infection before and after a planned teaching Programme in selected urban slums of Delhi.

### **Students with distinctions**

AlphyAlphonsa George

Anjali Babu

Blessy Babu

Diya Jose

Elizabeth T Thomas

Jeny James

### **Library Development**

Total library area increased in 2014-2015 to 3691.6 ft. From April 1st, 2015 to March,2016, total 129 nursing books were purchased. Total numbers of journal are 112. For the year 2016, 15 new journals are subscribed. Amount spent on nursing textbook from April 2015 to March 2016 is Rs.134775.00

Total number of magazines on current topics and general interest are 12. Total number of nursing books in the library was 4421 in the year 2015-2016

Faculty conducted sessions on various topics during CNE for the staff nurses. The sessions were taken on “Management Skills, Nurses force for change, Cost effective care effective, Chronic Kidney Disease, Rheumatic Heart Disease, Myocardial Infarction, Disaster Management, and Diabetes Mellitus”.

### **Publications**

Arora S., joshi, U, Gupta, S.Adjustment Problms Among Children With Attention Deficit Hyperactive Disorder (ADHD) And Conduct Disorder (CD). Indian Journal Of Psychiatric Nursing, 11(1), 33-39, Jan 2016.

### **Conferences organized/ Papers presented**

Three days’ workshop on “Recent Advances in Nursing” was organized from 26th to 28th October, 2015 in the College which was attended by 51 participants. Financed by College only.

One day pre orientation Seminar on Overseas Jobs was organized in Collaboration with the Ministry of External Affairs and NORKA, which was attended by 115 students and Staff on 9th Feb, 2016.

Two weeks training in self-defense was organized in Holy Family Hospital for the students and staff by the special unit for Women & Child, Delhi Police in October 2015. Financed by hospital only.

**Faculty Strength** Number of faculty - 25 (permanent)

### **Financial Allocation and Utilization**

Grant sanction in Rs. –Self Financing (Income generated- Rs.15088531/-, Contribution from Holy Family Hospital- Rs.1741696/-

Utilized in Rs. 16830227/-

### **Placement details**

Number of students getting successful placements- 100%

Number of Companies/Industries coming for campus recruitment- Not encouraged because All students preferred and were offered job in parent hospital (Holy Family Hospital).

First batch of B.Sc. (Hons.) Nursing students completed the course in May 2015. All students were offered job in parent hospital (Holy Family Hospital). Out of 41 students, 38 students joined there and 2 joined in Max Hospital, Saket and one student joined DU for higher studies.

### **Extension and Outreach work**

Number of camps organized in the surrounding areas.

Number of people enrolled/covered in the camps

Number of students who worked in the camps

Total number of hours dedicated to these camps

Health checkup camp- in the month of January 2016. Total number of people enrolled / covered in the camps were 110.51 students worked in these camps.

School Health camp- in the month of September 2015. Thorough Health assessment (including eye, dental and nutritional assessment) was done for 100 students in a private School. Need based Health education sessions were conducted including Exhibition and street play. Students requiring vitamin supplements and deworming were given medicines. Referral services were also provided. 46 students who worked in the camps.

### **Journals subscribed**

Number of international journals subscribed (online + paperback version)-5

Number of National journals subscribed (online + paperback version)-11

### **Other significant information (paragraph Format)-**

The syllabus of B.Sc. Nursing (Post Basic) course in Holy Family Hospital was approved by University of Delhi. College has been granted permission from University of Delhi to start Master of Nursing Programme and Post Basic B.Sc. Nursing program with annual intake of 32 students from the academic Session 2016-17.

## **INDIRA GANDHI INSTITUTE OF PHYSICAL EDUCATION & SPORTS SCIENCES**

### **Major Activities and Achievements**

The current academic year has its distinction in conducting number of Seminars and Inter-college Tournaments (of the University of Delhi). The details of major activities are listed below:

The Institute conducted a Lecture by Dr. Christopher Sellars, Head of Sports University of Wolverhampton, U.K. on 08.02.2016 for on Possibilities of International Collaboration on Academic & Research. A programme for Career Counselling was conducted in the Institute on 10.03.2016. Inter-varsity Handball Selection Camp was conducted in the month of December, 2015 in the Institute. Inter-College Handball Tournament 2015-16 for Men was conducted successfully by the Institute in January-February, 2016 (27.01.2016 to 02.02.2016). Inter-College Handball Tournament 2015-16 for Women was conducted successfully by the Institute in February, 2016 (23.02.2016 to 26.02.2016). Two Fitness Trainer Courses (FITCO) were conducted from May 25, 2015 to June 17, 2015 (during summer break) and 15.12.2015 to 04.01.2016 (During Winter Break). The Constitution Day was celebrated as Shapath Divas on 26.11.2015. Celebrated Birth Anniversary of Swami Vivekananda on 12.01.2016 and a documentary on the life Swami Vivekananda was shown to Staff & Students. Annual Athletic Meet-2016 was organized on 11.03.2016. Annual Function and Prize Distribution Ceremony was organized on 21.03.2016. Students Cultural Fest "Shankhnaad" was organized on 18.04.2016. A Seminar was conducted on 'Art of Negotiation' on 08.01.2016. A Seminar on "The Paradigm of Indian Constitutions" was organized on 30.11.2015 on the occasion of



125<sup>th</sup> Birth Anniversary of Dr. B.R. Ambedkar. One Day National Seminar was organized on “Curriculum & Syllabi Design in the Paradigm of Physical Education” on 22.03.2016. Ten days National Workshop was organized on “Research Design and Application of SPSS in Physical Education and Sports Sciences from 05.05.2016 to 11.05.2016 (The dates for next Workshop is tentatively fixed w.e.f. 13.06.2016 to 17.06.2016. Inter Class Debate Competition was organized on the subject “Impact of Social Media on Society on 16.10.2015. Inter Class Quiz Competition was organized on 18.09.2015. Various Games/Sports Intra-Mural conducted during this period i.e. Tug-of-War from 22.01.2016 to 29.01.2016, Football from 12.02.2016 to 19.02.2016, Handball from 26.02.2016 to 04.03.2016, Kabaddi 09.03.2016, Basketball 03.02.2016. 13 Scholars have been awarded Ph.D. Degree in the academic year 2015-16 in the Department of Physical Education & Sports Sciences.

### **Research Projects**

Innovation Project Code: IGPE 301, entitled “Nutritional Status and Body Composition of Sports Persons – Relation with Selected Physiological and Physical fitness Parameters” funded by University of Delhi for one year. Amount sanctioned Rs. 500,000.00

Innovation Project Code: IGPE 302, entitled “Attitude, Wellbeing, Friendship in relation to Academic and Sports Achievement of D.U. College Students-A Contextual Understanding” funded by University of Delhi for one year. Amount sanctioned Rs. Rs. 300,000.00

### **Students with Distinction**

Geetanjali Gautam	B.SC FYUP SEM VI
Deepali Seth	B.SC FYUP SEM VI
Umesh Kumar Ahlawat	M.P.ED SEM VI
Monika Rruhil	M.P.ED SEM VI
Shikha Dhanda	M.P.ED SEM VI

### **Library Development**

Successfully implementation of digital library, Users of IGIPSS have access the full-text documents in digital format i.e. old question papers, M.P.Ed, B.P.Ed and B. Sc. Syllabus, all Ph.D. theses and all M. P. Ed dissertations awarded from 2013 onwards. Presently IGIPSS Library database “Vidya: Library Management Software” put on-line through XAMPP Server and users view the real time status of availability of documents and borrowing status through mobile phone/laptop/desktop machine. All type of library work i.e. Issue-return, Catalogue maintenance, and stock taking activities etc. are managing through library software. Database of IGIPSS library has been upgraded and it is ready to host at University of Delhi server also user will be able to access it from new session, in this regards all assignment have been completed to achieve new goals.

Total Library collection (11653 documents out of 6843 titles) has been computerized in the database and Bar-coded which in searchable through Online Public Access Catalogue (OPAC). Library has organized three Library orientation program to enhance the use of physical and digital information resource.

### **Publication**

Prospectus: Prospectus of the College Published.

Vanaik Anil, Tyagi Sarita, & Wasuja Monika (May 2015). Fitness Instructor Manual for Fitness trainers – Aerobics & Group Trainers {New Edition}.

Tyagi Sarita, Vanaik Anil & Wasuja Monika (December 2015). Fitness Instructor Manual for Fitness trainers – Aerobics & Group Trainers {New Edition}.

Shaw, Dhananjay, Pawan Kumar (2015). "Comparison between the Existing (Clinical) Norms and Developed Norms of Indian Retired Sports persons" International Interdisciplinary Research Journal Bi-monthly ISSN 2249-9598 Vol.-V, Issue-IV July-Aug., 2015.

Bhardwaj Mansi, Tiwari Sandhya, Shah Mohammad Muzamil (2016). "Cardiorespiratory Fitness between Children Participating Within and After School Physical Activity Programme" International Journal of Multi-disciplinary Research and Modern Education (IJMRME), ISSN:2454-6119, 2(1).

Tyagi, Sarita. "Effect of a Block Training Programme on Selected Motor Fitness Components of Football Players" research paper in the proceedings of the Global Conference on Scientific Culture in Physical Education and Sports from February 18-20, 2016 (sponsored by UGC & ICSSR) at Punjabi University, Patiala, Punjab.Pg. 2208-2211 ISBN: 978-93-85446-45-0.

Vanaik Anil & Arora Sunita, Pranayama its Steps Benefits and Precaution in the proceedings of the Global Conference on Scientific Culture in Physical Education and Sports from February 18-20, 2016 (sponsored by UGC & ICSSR) at Punjabi University, Patiala, Punjab. Pg. 1982-87.ISBN: 978-93-85446-45-0.

Vanaik Anil. Motor Fitness Components of Young Prospective Teachers of Physical Education-A Profile Study in the proceedings of the Global Conference on Scientific Culture in Physical Education and Sports from February 18-20, 2016 (sponsored by UGC & ICSSR) at Punjabi University, Patiala, Punjab. Pg. 2145-2152.ISBN: 978-93-85446-45-0

Kumar Pradeep, Jain Shilpi (2015).Interactive effects of mental skills training and anxiety of Indian Athlete's Performance.International Journal Physical Education, Sports and Health, ISSN 2391-1685, Vol-1 (4), xxxxx.

Kumar Pradeep, Jain Shilpi (2015).A Comparative Study of Competitive Satae anxiety level between female players and Archery players.International Journal Physical Education, Sports and Health, ISSN 2391-1685, Vol-1 (4): 64-66.

Kumar Pradeep, Jaggi, Singh Devender (2015).Relationship between Selected Physiological Variables and the Performance of Hockey Players.Online International Interdisciplinary Research Journal, {Bi-Monthly}, ISSN 2249-9598, Volume-V, Special Issue.

Kumar Pradeep, Nath Rajinder. (2015). Effect of 8 Weeks Plyometric Training on Selected Motor Abilities of the Male Jumpers.Online International Interdisciplinary Research Journal, {Bi-Monthly}, ISSN 2249-9598, Volume-V.

Kumar Mohit, Wasuja Monika and Gulati A. Nutritional Profile, Energy Balance and Body Composition of Inter-College Level Male Handball Players. Published research paper in the proceedings of the Global Conference on Scientific Culture in Physical Education and Sports from February 18-20, 2016 (sponsored by UGC & ICSSR) at Punjabi University, Patiala, Punjab..Pg. 2089-2095 ISBN: 978-93-85446-45-0.

### **Conferences/Workshop Organized**

A Seminar was conducted on "Art of Negotiation" on 08.01.2016.

A Seminar on "The Paradigm of Indian Constitutions" was organized on 30.11.2015 on the occasion of 125<sup>th</sup> Birth Anniversary of Dr. B.R. Ambedkar.

One Day National Seminar was organized on "Curriculum & Syllabi Design in the Paradigm of Physical Education" on 22.03.2016.

National Workshop was organized on “Research Design and Application of SPSS in Physical Education and Sports Sciences” from 05.05.2016 to 11.05.2016 (The dates for next Workshop is tentatively fixed w.e.f. 13.06.2016 to 17.06.2016).

**Faculty Strength** Permanent- 27 + 1 (Principal) Deputation - 01 (Librarian).

#### **Financial grant**

Grant Utilized: Rs.9,56,85,748/- (Nine Crore, Fifty Six Lac, Eighty Five Thousand, Seven Hundred and Forty Eight).

#### **Journal Subscribed**

##### **Number of International Journal subscribed:**

Online : Approx. 40 data base though University of Delhi.  
Paperback Version : 04

##### **Number of National Journals subscribed:**

Paperback Version : 17

#### **Other Significant Information**

National Cadet Corps (NCC): Some students participated in the activities of NCC and Cadets achieved Ranks in various camps of NCC.

National Service Scheme (NSS):Regular NSS Programmes conducted.

## **INDRAPRASTHA COLLEGE FOR WOMEN**

#### **Major Activities and Achievements**

The 93<sup>rd</sup> College Day was celebrated. The College secured 17 University Positions with 5 first positions, 6 second positions and 6 third positions. College awarded the first Centenary Decade Under-Graduate Research Grant. An innovative and path-breaking syllabus for the Self-Financing Course B.A. (Hons.) Multi Media and Mass Communication has been approved under CBCS. The College submitted its Self-Study Report in May 2015 and the NAAC PTV visited the College from 18 to 20 Feb. 2016. 34 teachers presented at various international and national conferences. 33 teachers published books and articles in international and national journals. 26 teachers have served as Experts, Chairpersons and Resource Persons. 2 Non-teaching staff upgraded their qualifications and 2 undertook training. Students volunteered in the project Neev-Shikshaka Sawaal at the call of alumna Dr. Aruna Roy. Under Enactus-IP a student volunteer group went to Utrakhand during winter 2015 for an ethnographic study of the local art from under project ‘Aipan’. The Alumna team of I.P. College won the Titan’s Invitational Debate held on 20 November 2015.

#### **Outstanding Honours/Distinctions**

College has been awarded NAAC ‘A’ Grade with 3.33 Grade Point.

College received the 6<sup>th</sup> National Centre for Promotion of Employment for Disabled People (NCPEDP) – MPHASIS Universal Design Award on 14 August 2015.

Dr. Babli Moitra Saraf, Principal received the C.F. Andrews Distinguished Alumna Award of St. Stephen’s College, University of Delhi, for Distinguished Service and Lifelong Pursuit of Excellence;

Dr. Shubhra Seth, Assistant Professor, Department of Political Science, Best Paper award, “God does not Displace – Politics of Communal Violence and Displacement in India” in the 5<sup>th</sup> Annual PSSIR conference organized by Global Science and Technology Forum in Collaboration with University of Australia and University of Singapore at Bangkok, Thailand, 14-15 September 2015;

Dr. Jyoti Trehan Sharma, Associate Professor, Department of Political Science and Dr. Harsh Bala Sharma, Assistant Professor, Department of Hindi, Best Paper award, “Reflective Teaching as Metacognition for Innovation in Language Teaching” in the International Conference on “Recent Research Development in Environment, Social Science and Humanities”, Conference Centre, University of Delhi, 27 September 2015.

### **Research Projects**

Dr. Vinita Sinha, Associate Professor, Department of English (Principal Investigator) ‘Subversion on the Margins: A Study of Folksongs and Oral Narratives from the Regions of Bihar and Bengal’. Major Project, University Grants Commission, 2015-16.

Dr. Anita E. Cherian, Assistant Professor, Department of English (Principal Investigator), Editor of a forthcoming volume and Contributor, Major Project, Pro Helvetia, Swiss Arts Council, Goethe Institute, Raza Foundation etc., 2014-16.

Dr. Shagufta, Assistant Professor, Department of Political Science (Principal Investigator) ‘Contextualizing the Indian State in the Post Liberalized Era-A Study on the Perspectives of Welfarism in Policy Orientations’. Minor Project, Research Council, University of Delhi, 2015-16.

Dr. Anshu Srivastava, Assistant Professor, Department of Political Science (Principal Investigator) ‘Economic Reforms, The New Metropolitan Middle Class and Democracy in India: A case study of Attitude of Software Professional in NOIDA’. Minor Project, Indian Council of Social Science Research, 2014-16.

Dr. Jyoti Trehan Sharma, Associate Professor, Department of Political Science, Dr. Harsh Bala Sharma, Assistant Professor, Department of Hindi and Mr. Vijay Gautam, Librarian (Principal Investigators) ‘Breaking Barriers for a New Horizon: Community Outreach Program for Government School Students’. Innovation Project, University of Delhi, 2015-16.

### **Students with distinction**

Five 1<sup>st</sup> positions and Six 2<sup>nd</sup> positions in the University Examinations 2014-15;

Five Gold Medals in Sports (National and State level) in Baseball, Archery, Badminton and Boxing;

Ms. Akanksha Vardani, student of Final Year of B.A. (Hons) Economics presented paper on “Skill Development and Competitiveness: IT Industry of India and Sri Lanka” at the South Asian Economics Students’ Meet (SAESM), Colombo;

Ms. Narayani Tignath, student of Final Year of B.A. (Hons) Philosophy presented paper on “Pilgrimage to Cremation Places in India” at Mansfield College, Oxford University, U.K.

Ms. Monika Bari, student of Second year, B.A. (Hons) Multi Media and Mass Communication participated in the ‘Indian Youth Delegation to Malaysia, 18 – 20 November 2015;

## **Library Development**

Books added during 2014-15: 1034

Online Services: OPAC, UGC-NLIST, DELNET

Reprographic Service: Photo copying and printing service

Book Bank Service: Text books to the needy students

PH/VH facilities and services

Fully accessible through functional lift

Special cubicles with Computers

Three-in-One Angel Pocket Daisy Player

Daisy Books (talking books)

Braille Books

Braille Magazines

Braille Reference Books – Dictionaries

Jaws enabled computers with scanner

Embosser (Braille Printer)

Lex-Air Camera (Print assisting device) with Notebooks

Library Orientation and Workshop conducted for students

Library Extended Services:

Punjabi, Bengali, Hindi, Sanskrit and English books shifted in the Translation and Translation Studies Centre.

Braille Books, Lex-Air Camera with Notebook and Embosser (Braille Printer) are shifted and organized in the EOC/Enabling Unit.

ICT Centre.

## **Publications**

Sengupta, D. (2016). *The Partition of Bengal: Fragile Borders and New Identities*. New Delhi: Cambridge University Press.

Swami, A., Malik, N. & Mehandru, S. (2015). *A Conceptual Dictionary of Technical Terms in Yoga Philosophy*. Delhi: VidyanidhiPrakashan.

Sharma, H. B. (2015) *Hindi Kahani Sanchayan*. Delhi: Shri Natraj Prakashan.

Bellucci, S., Correa, L.R., Deutsch, J-G., & Joshi, C. (Eds.). (2015). *Labour in Transport: Histories from the Global South. C1750-1950*. Cambridge: Cambridge University Press.

Trivedi, P., & Chaudhuri, S. (Eds.). (2015). *Fields of Play: Sports, Literature and Culture*. New Delhi: Orient Blackswan.

Oberoi, B. (2015). *Structural Change, Technology and Employment in the Indian Textile Industry: 1980-2010*. *Arthaniti (New Series)*, XI (1-2), 25-46.

Singhal, R. (2015). *Screen-less Display – The Emerging Technology*. *International Journal of Advanced Research in Computer Science and Software Engineering*, 5(11), 579-584.

Kaur, S. (2015). *Recommender using Weighted Frequent Itemset Refinement Methodology (WFIRM) of Usage Clusters*. *International Journal of Business Intelligence and Data Mining*, 10(2), 95-122.

Sharda, S. (2015). *Credit Rating Agencies: How Watchful are the Watchdogs?*. *The International Journal of Business & Management*, III(IV), 266-271.

Gupta, V. (2014). *Creativity and Self-esteem among Dancers and Non-dancers: A Comparative Study*. *Indian Journal of Social Science and Organizational Behaviour*, 3 (1-2), 1-11.

### **Conferences Organized/Papers presented**

Department of Philosophy (UGC Sponsored), National Conference on Consciousness, 7-8 March 2016.

Dr. Rekha Sethi, "Hindi in Higher Education: A Delhi Perspective", International Hindi Conference on 'The Expanding World of Hindi: Possibilities and Challenges', 3-5 April 2015, Rutgers University, New Jersey, USA.

Dr. Manasvini M. Yogi, "consequentialism or Deontology? The Need of the Hour", 27<sup>th</sup> International Conference of Philosophy, Global Ethics and Politics, Vouliagmeni-Athens, Greece, 11-16 July 2015.

Ms. Jayashree Borah, "Memory as a Subversive and Recuperative Tool: A Study of Janice Pariat's Boats on Land", LITCRI' 15/IV Literary Criticism conference on "Memory and Literature" 13-14 November 2015, DAKAM (Eastern Mediterranean Academic Research Center), Istanbul, Turkey.

Dr. Veena Gupta, "Fear of Personal Death during Adolescence and Adulthood", International Journal of Arts & Sciences (IJAS), International Conference for Social Sciences and Humanities, 18-21 May 2015, Ryerson University, Toronto, Canada.

Dr. Shubhra Sethi, "God does not Displace – Politics of Communal Violence and Displacement in India", 5<sup>th</sup> Annual PSSIR conference organized by Global Science and Technology Forum in Collaboration with University of Australia and University of Singapore at Bangkok, 14-15 September 2015, Bangkok, Thailand.

**Faculty Strength** Permanent: 95; Temporary: 01; Ad-hoc: 63

### **Financial Allocation and Utilization**

Grant sanction in Rs.21,92,38,000/- (tentative on the basis of RE)

Utilized in Rs. 26,82,01,000/- (actual expenditure)

### **Placement details**

Number of students getting successful placement : 68

Number of Companies/Industries coming for campus recruitment: 12

Number of repeat recruiters: 05

### **Extension and Outreach work**

Number of camps organized in the surrounding areas: 13

Number of People enrolled/covered in the camps: 213

Number of students who worked in the camps: 100 (approx.)

Total number of hours dedicated to these camps: 4 hours/week

### **Journals subscribed**

Number of international journals subscribed (paper back version): 17

Number of National journals subscribed (paper back version): 42

## INSTITUTE OF HOME ECONOMICS

### Major Activities and Achievements

The Institute of Home Economics, founded in 1961, is a centre of higher learning through a combination of skill full pedagogy, research and extension activities. The Institute offers undergraduate programmes in Home Science, Microbiology, Biochemistry, Food Technology and Elementary Education; post graduate courses in Food & Nutrition and Fabric & Apparel Science; postgraduate diplomas in Dietetics and Public Health Nutrition and in Health and Social Gerontology and PhD.

### Outstanding Honours /Distinctions

Nidhi Gulati, a faculty member of Elementary Education Department completed the Fulbright-Nehru Doctoral Fellowship and was affiliated with the Department of Curriculum and Instruction, University of Wisconsin-Madison.

Savita Bansal was awarded the UGC post-doctoral fellowship for women

Neeti Vaid was one amongst the selected 20 young women achievers in India by Women in the World Summit (launched by the famous journalist Tina Brown in 2010) held at New Delhi on November 20, 2015.

### Research Projects

Geeta Trilok Kumar. "Trial of vitamin D supplementation to prevent acquisition of latent tuberculosis infection in schoolchildren (ViDiKids)" funded by Medical research Council, UK.

Seema Puri. "Nutritional risk factors for growth and development of low birth weight infants in the first year of life" ( 2014) funded by Indian Council of Medical Research and "Analysis of IYCF Policies in South Asian Countries (2013)" funded by the South Asian Infant Feeding and Research Network ( SAIFRN).

Nidhi Gulati and Mamta Singhal. "Facilitating constructivism in government school classrooms" funded by ICSSR.

Shipra Gupta. Co-investigator for 'Statistical and epidemiological capacity building to enhance India-UK collaborations' (2014-2016) funded by UK-India Education and Research Initiative.

Savita Aggarwal and Dr. Geeta Punhani. "Gender and Climate Smart Agriculture: Enhancement on Adaptive Capacity of Rural Women" funded by UGC.

### Students with Distinctions

Ms. Sumati of M.Sc. (Food and Nutrition) 2<sup>nd</sup> Year and Ms. Rinki Dabas of M.Sc. (Fabric and Apparel Science) 2<sup>nd</sup> Year were 3<sup>rd</sup> rankers in the University.

Ms. Swati Yadav and Ms. S. Shilpa Nair of M.Sc. (Fabric and Apparel Science) 1<sup>st</sup> Year scored 1<sup>st</sup> and 2<sup>nd</sup> rank in the University semester examination respectively.

Ms. Divya Rawat of PG Diploma in Dietetics & Public Health Nutrition was 1<sup>st</sup> rank holder in the university.

Ms. Marilyn Sung of 3<sup>rd</sup> Year Home Science (Pass) secured 3<sup>rd</sup> rank in the University semester examination.

### Library Development

Total budget spent on Library books: Rs.3,97,913/-

Total no. of books as on 31/03/2016: 24998

Number of books added in 2015-16: 211

## **Publications**

### **Research papers published/accepted**

Nigam, Arti (2015) "Purification and characterization of a *Bacillus subtilis* keratinase and its prospective application in feed industry", *Acta Biologica Szegediensis*. (accepted)

Chaudhary H, Gupta D, Gupta C. (2016) 'Multifunctional dyeing and finishing of polyester with Sericin and Basic dyes', *The Journal of the Textile Institute*, doi 10.1080/00405000.2016.1165401, Impact factor: 0.725, ISSN No. 0040-5000.

Gupta V, Gulati P, Bhagat N, Dhar M and Viridi JS. (2015) Detection of *Yersinia enterocolitica* in food: an overview. *Eur J Clin Microbiol Infect Dis*, 2015 34:641-650.

Husain D, Khanna K, Puri S, Haghhighizadeh M.(2015) "Supplementation of Soy Isoflavones Improved Sex Hormones, Blood Pressure, and Postmenopausal Symptoms." *J Am Coll Nutr*. 2015 Jan 2;34(1):42-48.

Jagriti Kher, Savita Aggarwal and Geeta Punhani. "Women as drawers of water: Sharing the unequal burden". *The International Journal of Gender Studies in Developing Societies*, Inderscience Journals.(paper accepted)

Malik R, Arora R, & Aggarwal S. (2015). Consumer Awareness of Consumption of Raw Milk: A Review of Risk and Health Hazards. *Weekly Science Research Journal*, Vol-3, Issue-17, November, pp. 1-7, ISSN: 2321-7871.

Manjula Suri, Namita Saini and Shipra Gupta.(2016). "Exploring the Physiological Effects of Yoga: A State of the Art Review". *International Journal of Physical Education, Sports and Health*, vol3,Issue 2,Mar-Apr 2016,ISSN:2394-1693.

Priti Khanna and Bani Tamber Aeri. "The Unexplored Relationship Between Diet & Mental Health: A Review." *Journal of Medical Science and Clinical Research*. Vol 4 (2): 9556-9572.

Shipra Gupta, K. Geeta, Geeta Mehto.(2016) "Self-Care Behaviour Practices and Related Factors among Hypertensive Men and Women in Delhi". *Asian Journal of Multidisciplinary Studies*, Vol. 4, Issue 1, January 2016, pp12-19.

Singhal M. (2015) "Scientific literacy to all- Challenges to a dream". *International Research and Review*. Vol. 4, No. (3).

### **Conferences organized/attended**

#### **Papers presented at international conferences**

Chanchal and Sudha Dhingra presented a paper on 'The colors of Natural Sustainable Dyeing with *Aal (Morinda citrifolia)*' at Annual conference of International Foundation of Fashion Technology Institutes at Beijing, China 2016.

Deepali Jain and Bani T Aeri. "Utilisation of maternal and child health services: perception and practices of women from urban slums of East Delhi" at the International Conference on Maternal and Child Nutrition, organized by Saifrn and Unicef, held at Colombo, 23-24 November, 2015.

Manjula Suri. "*Physiological role of Beta Endorphin in Pain modulation*" for BIT's 6th Annual World Congress of Neurotalk 2015,22-24th May 2015, Hangzhou, China.



Poonam Magu participated and presented a paper in the International Conference titled “*Path Process Chart - A technique to conduct Time and Motion Study*” at VI Applied Human Factors and Ergonomics Conference held at Las Vegas, USA from 26<sup>th</sup> -30<sup>th</sup> July 2015.

Puri S, Gaidhane A, Fernandez S, Puranaik A, Anand D, Zahiruddin QS, Patel A. “Content and stakeholder analysis of infant and young child feeding policies in India”, International Conference on Maternal and Child Nutrition, Colombo, Sri Lanka, 23-24 November 2015.

Suneeta Mishra. “Deciphering Indian multilingualism through Hindi film songs” at International Symposium on Bilingualism at Rutgers University, USA, May 2015.

#### **Papers presented at national conferences**

Harshita Chaudhary, Deepti Gupta, Charu Gupta presented a paper on ‘Novel Infra-red technology for extraction of sericin from silk waste’ at UGC sponsored National seminar on Food and Textile industry- Emerging trends and perspectives, organised by Lakshmi Bai College, University of Delhi, 10<sup>th</sup>-11<sup>th</sup> February, 2015.

Jyoti Aggarwal presented a paper on ‘Semiotics of dress: A changing scenario’ at first national social science researchers' colloquium on researching the contemporary India on 16-17th april, 2015

Kashish Vohra and Shipra Gupta. “Dietary Practices, Lifestyle Patterns and Nutritional Status of Semi-Professional and Professional Female Dancers” at 47<sup>th</sup> Annual National Conference of the Nutrition Society of India held at National Institute of Nutrition, Hyderabad on October 9 – 10, 2015.

Renu Gulati. “Frustration tolerance and Aggression amongs Adolescents” at the National Seminar on “Stress and Mental Health: Nurturing positivity in children and adolescent” at IGNOU on 2<sup>th</sup> March 2016.

Ruchira Das. “Between the Native Land and the City: Negotiations and Experiences of the Santhal Migrants of Kolkata” in the National Conference on Migration, Diaspora and Development, organised by Global Research Forum on Diaspora and Transnationalism (GRFDT), India International Centre, Delhi on February 20 and 21, 2016.

#### **Invited as speakers**

Nidhi Gulati. “Understanding childhood” at Shiv Nadar University for their ‘Theatre for Education and Social transformation’ in November - December 2015.

Suneeta Mishra. “Knowledge, Exclusion and Society: Interdisciplinary perspectives” organised by Zakir Hussain Centre for Educational Studies, JNU. September 2015.

#### **Faculty Strength Temporary/Ad-hoc 47/45**

#### **Financial Allocation and Utilization**

Grant sanction in Rs. 18,86,65,760/-

#### **Placement Details**

Number of students getting successful placements: 50+

Number of companies/industries coming for campus recruitment: 30+

Number of repeat recruiters: 05+

### **Extension and outreach work**

'Each One Teach One' – a community education programme, Nutrition Education and Diet Counselling Camps, Students are engaged with a number of NGO's like CRY, Mobile creche, Nehru Yuvak Kendra, Help Age India, and Teach for India programme under the Rohini Gadhioke Foundation

### **Journals subscribed**

A. Number of International journals subscribed in print: 2

B. Number of national journals subscribed in print: 19 journals, 10 magazines

## **INSTITUTE OF HUMAN BEHAVIOUR AND ALLIED SCIENCES**

### **Major Activities and Achievements**

The key features of Institute of Human Behaviour and Allied Sciences for 2015-16 are community services under Mobile mental Health Units, resource centre for tobacco control under Tobacco Control Programme, role in formulating the National Disaster Management Guidelines under Disaster Management Cell and it being identified as Centre of excellence in the field of mental health under National Health Programmes and it is also a referral centre for viral load under NACO

### **Outstanding Honours/Distinctions**

Dr. Mukul K Jain, Associate Professor, Neuroanesthesia was awarded excellence Award – 2015 by IMA-EDB to.

Dr. Rajeev Thakur, Professor, Department of Microbiology was invited as a Temporary adviser to WHO EMRO for International Scientific Meeting on MERS from 1-7 May 2015 at Cairo.

### **Research Projects**

Department of Microbiology: 'Molecular diagnosis and characterization of drug resistance genes in M. tuberculosis from patients of TBM and its correlation with host factors' funded by ICMR.

Department of Neurochemistry: 'Comparative Evaluation of Newer Biodosimetric approaches to assess Acute Radiation Damage' funded by ICMR .

Department of Neurology: 'Saving the Brain-Proposal to Increase Awareness of Thrombolysis (Acute Stroke Management) Among General Physicians, Health Care workers and in Community' funded by World Federation of Neurology.

### **Library Development**

Exchange programmes were established with different national and international institutions such as national Medical Library (NML), UCMS, NIMHANS, NML, World Health Organization (WHO) etc. to retrieve the update information the related subject fields. In addition to library services, various other activities of the institute like computerization, website updation, MIS data and implementation of E-office programme of GNCT, Delhi is also carried out by the Library & Information Centre.

### **Publications**

Kar, S.K., Borasi, M., Kumr, D. and Gupta, S.K. (2015). Carbamazepine induced optic neuropathy in an adolescent boy with conduct disorder: a rare case report: *Indian J Psychiatry*; 57;437-438.

Tripathi, P., Gupta, S.K., Goyal, P. and Kar, S.K. (2015). Successful use of olfactory hallucinations as early warning sign in a patient with bipolar disorder. *Australian and New Zealand Journal of Psychiatry*. Mar 18:0004867415577436.

Sharma, S, Sethi, GR, Gupta, U. (2015). *Standard Treatment Guidelines: A Manual for Medical Therapeutics*. Delhi: Society for Promotion of Rational Use of Drugs and Wolters Kluwer Health.

Talwar, P,Silla,Y, Grover, S, Gupta, M, Agarwal R, Kushwaha,S , Kukreti, R. (2014). Genomic convergence and network analysis approach to identify candidate genes in Alzheimer's disease: *BMC Genomics*, 15(1):199.

Talwar, P., Sinha, J., Grover, S., Rawat, C., Kushwaha, S., Agarwal, R., Taneja, V. and Kukreti, R. (2015). Dissecting Complex and Multifactorial Nature of Alzheimer's Disease Pathogenesis: a Clinical, Genomic, and Systems Biology Perspective. *Mol neurobiol*; DOI 10.1007/s12035-015-9390-0.

Gupta, R., Thakur, R., Jalan, N., Pumanshi, R., Paul, M. and Kushwaha, S. (2016). Comparative evaluation of in-house Real time IS 6110, nested MPT 64 PCR and Roche AMPLICOR 16s rRNA PCR for diagnosing tuberculous meningitis: *International Journal of Infectious Diseases*, 45(1):33.

Pant, I., Chaturvedi, S., Jha, D.K., Kumari, R. and Parteki, S. (2015). Radiologic pathologic correlation and diagnostic approach: *J. Neurosci Rural Pract*; 6: 191-97.

Gupta, A., Chavi and Sarbjeet Khurana. (2015). Evaluation of total creatine kinase levels in a spectrum of neuropsychiatric disorders in a tertiary neurosciences centre: *International journal of Medicine and Public health in International journal of Medicine and Public*, 5(4): 362-5.

Singh, Ravinder. (2015). Impact of Climatic Changes in Himalaya: On the Margin in Anthropology! *NAM Today: An International Journal of New Age Mind*, Vol. 48, 6:15-18.

Soni, S., Agrawal, P., Kumar, N., Mittal, G., Nishad, D.K., Chaudhury, N.K., Bhatnagar, A. and Chhillar, N. (2016). Salivary biochemical markers as potential acute toxicity parameters for acute radiation injury: A study on small experimental animals: *Hum Exp Toxicol*, Vol. 35(3) 221-228.

Shailesh Jha, Amit Garg, Amit Khanna. (2015). Dissociative Disorder manifesting for underlying Adolescent Hemiparkinsonism: New Chronologies for Old Mummies: *Asian Journal of Psychiatry*, 16, 61-62.

### **Conferences organized/attended**

#### **Conferences attended**

Dr. Mukul Jain, Department of Neuroanesthesia. "Relevance of Endotracheal Tube Cuff Pressure (ETTc) monitoring during Anterior Cervical Spine Surgeries- Manual V/s Automatic Method" at ISACON 2015, Jaipur on 26-29 Dec. 2015.

Dr. Renu Gupta, Department of Microbiology. "Comparative evaluation of in-house Real time IS 6110, nested MPT 64 PCR and Roche AMPLICOR 16s rRNA PCR for diagnosing tuberculous meningitis" International conference of Infectious Disease (ICID 2016) held from 2-5 March 2016 at Hyderabad

Dr. Sarbjeet Khurana, Department of Epidemiology."Burden of CAD in adults of India: A systematic review' at the 43<sup>rd</sup> IAPSM Annual Conference 2016 at Gandhi Nagar, Gujarat, 7<sup>th</sup> Jan to 9<sup>th</sup> Jan. 2016.

**Faculty Strength** Permanent: 40, Ad-hoc: 02

### **Financial Allocation and Utilization**

Grant sanction in Rs.: 8700 Lakh

Utilized in Rs. : 8014.62 Lakh

### **Extension and Outreach Work**

Number of camps organized in the surrounding areas:

1. Disability Assessment & Certification Camp on 27<sup>th</sup> March, 2016 for Children with intellectual disability.
2. Stroke awareness camps in different localities of East Delhi to know the awareness among community.

### **Journals subscribed**

- a) Number of international journals subscribed (online + paperback version): 107
- b) Number of National journals subscribed (online + paperback version): 50

## **JANKI DEVI MEMORIAL COLLEGE**

### **Major Activities and Achievements**

An Academic Excellence committee has also been set up, whose mandate is to undertake projects that are innovative as well as research oriented, conducting seminars and/or workshops. A Self-Defense Programme of fifteen days was also organized for the students of the college. The students, who participated, were felicitated with certificates by Ms. Meenakshi Lekhi, Member of Parliament, Lok Sabha. The Equal Opportunity Cell and Enabling Unit of the college recently provided Smart Canes developed by IIT. A one month self defense workshop was also organized for these students. In addition, software that makes reading and printing easier was installed on the laptops of the students and they were given proper training for using the same. JDMC ensures that no student is neglected due to unfortunate circumstances. College has undertaken Remedial Classes, for which, more than 200 students have opted, to address difficulties that they are facing in various papers. 88 students from B.Sc. (Hons.) Mathematics, II and III year participated in Madhav Mathematics Competition, organized by S. P. College, Pune and Homi Bhabha Centre for Science Education, T.I.F.R., Mumbai which was held nationwide on 13th December, 2015.

### **Outstanding Honours /Distinctions**

Dr. Anuradha Anand, Ex-Acting Principal from the Department of Economics, was awarded 31st Dr. S. Radha Krishnan Memorial National Eminent teacher Award 2015.

Dr. Rajyalakshmi, Department of Sociology, completed her post-doctoral research titled, "*Language as a symbol of ethnic identity; a study of Mulky Movement in Telangana districts of Andhra Pradesh*" with ICSSR.

Dr. Saumya Gupta, Department of History, for the thesis titled, "*Social History of a North Indian Colonial City, Kanpur, c. 1850-1950*", in March 2015, University of Delhi.

Dr. Ruchi Shree, Department of Political Science, at Centre for Political Studies (CPS), JNU for the thesis titled, "*Politics of Water as Natural Resource: Study of Two Movements (Plachimada and Tarun Bharat Sangh)*", in April, 2015.

Dr. Abha Jain, Department of Sports won 5 silvers in 10th Delhi Master's Aquatic Meet in October 2015 qualifying for National Master's Meet. She completed Brevet De Mondiaux (BRM); a 200 Km Cycling Event, representing Delhi Randonneurs (DR) Club organized by Audax India Randonneurs (AIR) under Audax Club Parisien (ACP) France. She has also secured 2nd position, Gran Fondo Cycling Race held at GFR, Gurgaon, Haryana in December, 2015.

### **Students with Distinctions**

Liza Wadhawan of B.Com (Hons.), II year has been appointed as the Program Mentor of the Rio 23+ World Humanitarian Summit Certification Program 2016 by United Nations.

Aparna Kumari and Advaita Parashar, from B.A. (Hons.) Sociology, III year were selected for South Asian Youth Conclave, 2015 by TERI.

Niharika Sharma, B.A. (Hons.) Philosophy, III year has been selected for the LEADearthSHIP Fellowship mentored by TERI and GENPACT for a year. The fellowship focuses on leadership and sustainability.

Vrinda Chaturvedi of B.A. (Hons.) Sociology, III year won the First RunnerUp in the Great Debate, 2015 organized by VBT British High Commission Debate. She has received the Certificate for climate change from UN and NASA.

Mona and Pooja, B.A. (Hons.) Political Science, III year have participated in Delhi Olympic Games 2015 and Delhi State Handball Championship and secured Gold Medal in both the events. They were also part of Delhi Handball Team and secured 4th position in Federation Cup Handball Tournament held at Nellore, A.P. from July 12 to 15, 2015.

Raksha Panwar, B.A. (Hons.) Hindi, III year, Akansha, B.A. (Hons.) History, III year, Rakhi and Inikadeep Kaur, B.A. (Prog.), II year and Mohini Chaudhary B.A. (Prog.), I year, were selected in DU Football Team that won runner's up trophy in North Zone Inter University Football Tournament at Kanpur, up and also played in All India Inter-University Football Tournament held at Chennai from Feb. 26th to March 01st, 2016.

### **Library Development**

Ours is a fully computerized Library using Libsys Software (an integrated Library management system), where all the housekeeping job are performed through the Libsys. The library has OPAC facility to search the collection. In the library, two OPAC machines are installed to help the user. OPAC has the basic and advance search facility. We are sensitive to the needs of our visually challenged users. To provide them equal access, the library has installed one screen reading software (SAFA) and audio recorders/CD players and plectalks Angel pocket recorders are issued to visually challenged users and we arrange Braille books and talking books. Computer training is also provided to our visually challenged students/teachers. It is the training center for C.L.S. (Certificate in Library Science) students of J.D.V.C, Delhi library Association and NIOS. The J.D.M.C. Library also has a Women's Studies Resource Center.

### **Publications**

#### **Books**

Anuragi, Rajni Bala, 2015, डॉ तेजसिंह का स्त्री चिंतन ,दिल्ली ,आरोही (ISBN 987-93-81883-30-3)

,2015 , \_\_\_\_\_ वर्चस्व के बरक्स : दलित स्त्री रचनाकारों की कहानियाँ, दिल्ली ,आरोही (ISBN :987-93-81883-31-0)

Chanchal, 2015, इन्दिरा गांधी और कांग्रेस का समाजवाद-(1967 से 1977 तक उनकी नीतियाँ तथा उपलब्धियाँ, दिल्ली, साहित्यसंचय (ISBN: 978-93-82597-11-7).

\_\_\_\_\_, (2015), *Comparative Government and Politics*, New Delhi, New Century Publications (ISBN: 978-81-7708-407-8).

Chandra, Rajashree, (2016), *The Cunning of Rights: Law, Life, Biocultures*, Delhi, Oxford University Press (ISBN-10: 0-19-945967-2).

Garg, Sandhya, 2015, देश विभाजन और समकालीन कथा साहित्य, नई दिल्ली ,पाखी प्रकाशन (ISBN: 978-93-81501-24-5).

,2015 , \_\_\_\_\_ अज्ञेय का कथा साहित्य:आधुनिकता बोध के संदर्भ में, नई दिल्ली ,पाखी प्रकाशन (ISBN: 978-93-81501-28-3)

Nagpal, Payal, (2015), *Shifting Paradigms in Culture: A Study of Three Plays by Jean Genet: The Maids, The Balcony and The Blacks*, New Delhi, New Castle (ISBN-13: 978-1443876988)

Pal, Swati, (2015), *Indo Australian Connections, Retrospect and Prospects*, New Delhi, Pinnacle Learning (ISBN: 978-93-83848-16-4).

Riamei, Lung Thui Yang, (2015), *The Kurdish Question: Identity, Representation and Struggle for Self-Determination*, New Delhi, Knowledge World Publishers Ltd. (ISBN: 978-93-83649-36-5).

Tewari, J.P., (2015), *Ecology, Communication and Environment*, New Delhi, K.K. Publication (ISBN: 978-81-7844-266-2).

#### **International Journals**

Chanchal, May, 2015, *India's Strategy toward Energy Development and Energy Security -Challenges and Opportunities*, International Journal of Energy Science and Engineering, Vol. 1, No. 2, pp. 31-39 ([ISSN 2381-7275 online](#), [2381-7267 print](#)).

Charan, Amita, 2015, *Digital Marketing and Online Consumer Behaviour in Indian Car Market*, International Journal of Management, Vol. 4, No. 2. (ISSN 2278-8913), a double blind peer reviewed journal.

Deepshikha, July, 2015, *Rethinking the Absence of Post-Western IR Theory in India: 'Advaitic Monism' as an Alternative Epistemological Resource*, European Journal of International Relations.

Gupta, Tanu, March 2016, *A Time-Censored Zero Failure ALT Plan under Triangular Cyclic-Stress Loading*, International Journal of Performability Engineering, Vol. 12, No. 2.

Rawal, Tanuja, October-December 2014, *Bhagvadgeeta Ke Anusar Jeevan Ke Uddeshya*, International Multidisciplinary Research Journal, Vol. 15, Pp 24-31. (ISSN N. 2249-6114).

#### **National Journals**

Chaudhary, Shilpa, 2016, *Trends in Total Factor Productivity in Indian Agriculture: State Level Evidence using non-parametric Sequential Malmquist Index*, Imperial Journal of Interdisciplinary Research, Vol. 2, No. 2.

Brahmachari, Debahuti, July, 2015, *Reaching Out to the Unreached: A study on Mobile Schools (Chalta Phirta Schools) project under Sarva Shiksha Abhiyan*, IOSR Journal of Humanities and Social Science, Vol. 20, No. 7 (ISSN2279-0837).

Nagpal, Payal, July, 2015, *Translating Poetry: The Case of Famous Kashmiri Poet Lal Ded*, Journal of Literature Studies, Vol. 1,.

Singh, Gurinder H., September, 2015, “*Global Impact of Modern Trends on Hindustani Vocal Music*”, Vageeshwari, Vol. 18 (ISSN 0975-7872).

### **Conferences Organized/Paper Presented**

#### **Conference Organized**

Janki Devi Memorial College organized the multi- disciplinary International Conference, “*Divergence*” on 1<sup>st</sup> and 2<sup>nd</sup> April, 2016. The conference had an impressive lineup of the speakers expressing their viewpoints on the contentious issues relating to democracy, nationalism, media, environment, gender etc. This conference was unique and showcased the pluralistic approach of the faculty.

Gandhi Study Circle, a society at college level which promotes Gandhian values by organizing events around Mahatma Gandhi’s life and philosophy, has also organized an International Conference on “*Peace and Conflict Resolution*”. The speakers, Dr. Annika Malmsten Saltin, Head, Department of Languages, Literature and Intercultural Studies, Karlstad University, Sweden and Dr. Ashid Kolas, from the Peace Research Institute Oslo (PRIO), Norway presented their views on international and interpersonal conflict and had a lively interaction with students and faculty. Many well-known academics and practitioners were invited by the Gandhi Circle to talk on such issues as the sedition law.

#### **Conferences Attended**

Ms. Bijoyta Yonzon from Economics Department presented and rewarded best paper titled “Understanding Segmentations of Labour Markets in Contemporary India” in a two day International Conference on 3i - “*Intelligence, Innovation and Inclusion: Best Practices for Global Excellence*” organized by Department of Management Studies, Pondicherry University, on 11<sup>th</sup> and 12<sup>th</sup> March, 2016.

Dr. Saumya Gupta from History Department presented a paper titled “**Biography of a Street and the Making of Urban Public(s): The Meston Road in Kanpur, c. 1900-1950**” in the International Urban History Group Conference on “*Re -Evaluating the Place of the City in History*” at Robinson College, University of Cambridge, United Kingdom on 31<sup>st</sup> March and 1<sup>st</sup> April, 2016.

Dr. Jayanti P. Sahoo from Philosophy Department presented a paper titled, “The Upanishadic views on Self, World and Morality: An assessment with special reference to Arthur Schopenhauer” in a three day International Conference on “*Self, World and Morality: Schopenhauer and Indian Philosophy with a special reference to the Upanishads (Oupnek’hat)*”, organized at JNU by the Indian Division of Schopenhauer Society jointly with the Philosophy Department of Deshbandhu College, University of Delhi in collaboration with the Special Center for Sanskrit Studies, JNU at the Schopenhauer Research Center of the University of Mainz, Germany from 23<sup>rd</sup> to 25<sup>th</sup> March, 2015

Dr. Shilpa Chaudhary from Economics Department presented a paper titled "WTO and Food Security: Issues, Challenges and Implications for India" at the UGC-Sponsored National Seminar on "*Trade Negotiations under WTO: Issues before Developing World*" organized by Shyam Lal College, University of Delhi on 4<sup>th</sup> and 5<sup>th</sup> April, 2016.

**Faculty Strength** Permanent /Temporary – 142

**Financial Allocation and Utilization**

Grant Sanctioned: Rs. 28,94, 39760.00  
Utilized Amount: Rs. 26,47,26,360.00

**Placement Details**

Number of Students getting successful Placement = 192  
Number of companies/ Industries coming for campus recruitment: 7  
Number of Repeat Recruiters = 4

**Number and name of Domestic/International Mou's signed with partners**

With Indian and foreign companies/industry: one

Azure Power India Pvt. Ltd. for setting up a Solar Power Plant of 88 kw on a Build-Own-Operate scheme, where Azure Power will manage all the complexities of financing, designing, building, owning, operating and maintaining the plant for a period of 25 years.

**Extension and Outreach work**

- A. Number of camps organized in the surrounding area: 7
- B. Number of people enrolled /covered by camps: Approximately 250 students
- C. Number of students who worked in the camps:
- D. Total number of hours dedicated to these camps: Approximately 3-4 hours in a week

**Journals subscribed**

Number of international journals subscribed (online + paperback): 11 (print only)  
Number of national journals subscribed (online + paperback): 62 (print only)

## **JESUS AND MARY COLLEGE**

**Major Activities and Achievements**

In a bid to promote research activities in the College and give exposure to students and faculty to relevant issues impacting the socio-economic and socio-political environment, Jesus and Mary College brought out its own journal titled "The JMC Review – An Interdisciplinary Journal of Theory, Criticism and Practice". The College was again awarded the Vice Chancellor's Trophy for the best Women's College for Sports.

**Outstanding Honours/Distinctions**

Dr. Renny Thomas, Department of Sociology, is a recipient of a prestigious award from the American Academy of Religion (AAR) USA and is a member of South and Southeast Asian Association for the Study of Culture and Religion (under International Association for the History of Religions, 2015 – 2016).

**Research Projects**

Dr. Renny Thomas, Department of Sociology. "Ayudh Puja in Academy and Industry" collaborative International Research Grant 2015 – 16 by the American Academy of Religion with Prof. Robert Geraci (New York).

**Library Development**

Library occupies three floors of a four-storeyed building. It is fully air-conditioned and fully automated by "TROODON SOFTWARE PACKAGE" which is an integrated multi-user library management system.\* We are also the member of N-List (INFLIBNET) in which the User can easily access 6000 e-journals and 97000 e-books anywhere with their user ID and Password.



## **Publications**

Marwaha, A. *The Secret World of Vipassana and Mathematics – Zero to Infinity*.

Tohan, S & Dharmaraja, S. (2015) On the Exact Transient Solution of Fluid Queue Driven by a Birth Death Process with Specific Rational Rates and Absorption: *Opsearch*, Vol.5214, pp.746-755.

Sehgal, A, Mukhopadhyay, R and Sr. Rosily T.L. (2015). Understanding Resilience of Socially Disadvantage Group: Inclusions in the Formal School System: *Delhi University Journal of Undergraduate Research and Innovation* Volume 1, Issue 2

Mani Arul Nandhi (2015). *Economic Development Policy in India – Prospects and Performance, a textbook for B.Com*. New Delhi: Galgotia Publishers.

Raj, R. (2015). Buddhism in Sikkim: a Study in Cultural Syncretism: *Journal of Undergraduate Research and Innovation*, volume 1, issue 2, pp. 291-302.

---. (2015). ‘A Pamphlet and Its (Dis)contents: A Case Study of *Rangila Rasul* and the Controversy surrounding it in Colonial Punjab, 1923-29: *History and Sociology of South Asia*, vol. 9.2.

John, M. (2016). (De)skilling Caste: Exploring the Relationship between Caste, State Regulations and the Labour Market in Late Colonial India: *The Vernacularization of Labour Politics*, edited by Sabyasachi Bhattacharya and Rana P. Behal.

---‘*The “Half-timer”*: Colonial Indian Regulation of Child Labourers’ in *Regulating Time: New Perspectives on Law, Regulation and Temporalities*, edited volume, Routledge Social Justice Book Series [forthcoming]

Das, Mausumi, and Naveen J. Thomas.(2016). The Role of Small and Medium Enterprises in Structural Transformation and Economic Development. No. 255. *Centre for Development Economics*, Delhi School of Economics.

Manchanda, N. and Chaudhary, K. (2016) . Health Care For Poor In India: An Assessment of Out-of-Pocket Health Care Expenditure and Health Insurance For Poor. *Public Health Infrastructure in Transition*, Bloomsbury Publishing, India.

Dasgupta, A. and Manchanda, N.(2016). Status of Pulse Processing Sector in India: Constraints and Opportunities: International Food Policy Research Institute (IFPRI), South Asia

Srivastava, R. and Manchanda, N. (2015). Social Protection In Odisha: A Mapping Study. International Labour Organization, South Asia

## **Conferences organized/attended**

Conferences Organized

National UGC Seminar by Sociology Department on “Environment in Sociology: Emerging Trends” held on 7<sup>th</sup> – 8<sup>th</sup> April, 2016

National UGC Seminar organized by Mathematics Department on “Relevance of Mathematics for Employability: held on 22<sup>nd</sup> – 23<sup>rd</sup> September, 2015

National UGC Seminar organized by Commerce Department on “Online Retailing – A Paradigm Shift in India’s Retailing Scenario” held on 17<sup>th</sup> – 18<sup>th</sup> March, 2016.

#### Conferences Attended

Alka Marwaha, Department of Mathematics. "Value Formation in Higher Education" at the International Conference on Foundations of Human Excellence at Loyola College (Autonomous), Chennai, 3<sup>rd</sup> – 5<sup>th</sup> February, 2016

Amita Paliwal. "Nineteenth Century literature and later Mughal architecture." 8<sup>th</sup> -9<sup>th</sup> March, 2016. National Seminar at National Archives, New Delhi

"The Last Mughal Building as depicted in Contemporary Literature" at UGC National Seminar at K.K.T.M. College, Kodangullur, Thrissur, Kerala on. 26-27<sup>th</sup> November, 2015.

"A history of Forgotten Last Mughal Palace complex in Mehrauli" in S.G.T.B. Khalisa College on 29<sup>th</sup> October 2015.

"A history of Last Mughal Palace complex, Zafar Mahal, in Mehrauli at CHS, JNU, on 24<sup>th</sup> September, 2015.

Sr. (Dr.) Molly. "Teresian Quest for Reform" at Congreso Inter Universitario "Santa Teresa De Jesus, Maestra De vida' at the University of Avila, Spain on August 2015.

" Women's Health and Management of stress at Work: a compelling Priority for a Better Society" at St. Bede's College, Shimla, Himachal Pradesh on October 2015.

Maya John, Department of History. 'Law's Labour Lost: A Long History of India Labour Law' at the International Workshop "Chronologies of 'Labour': a Global Perspective". Organized by: The Association of Indian Labour Historians (AILH), the V.V. Giri National Labour Institute (Noida) and the International Centre for Advanced Studies (ICAS:MP, Germany). Date: 22-23 January 2016.

'Exploring the break with nineteenth century regulation of labour relations, the emergence of new contractualism and the institutionalization of tripartism' at the XIth International Conference on Labour History: Workers, Labour and Mediation. Organized by: V.V. Giri National Labour Institute (Noida) & Association of Indian Labour Historians (AILH). Date: 21-23 March 2016

'A short history of Indian labour law: its precedents and prospects' at the National Seminar on Labour Laws Reforms and Implementation of Unorganised Workers Social Security Act – 2008. Organized by: The Mahatma Gandhi Labour Institute (Ahmedabad), 31 March 2016.

**Faculty Strength** Permanent - 83 Adhoc – 23 Guest: 4

#### **Financial Allocation and Utilization**

(a) Grant Sanctioned: Rs 25,64,18,760/-

(b) Utilized: Rs. 24,08,52,195/-

#### **Placement details**

(a) Number of students getting successful placements: 130

(b) Number of Companies/Industries coming for campus recruitment: 70

(c) Number of repeat recruiters: 20

**Number and name of Domestic/International (MoU's) signed with partners**

- i. MOU Signed with Concordia College, New York, USA
- ii. In the process of signing an MOU with Brawijaya University, Indonesia.

**Extension and Outreach work**

Number of camps organized in the surrounding areas: NCC organized 10 camps/workshops

Number of students who worked in the camps : 75

Total number of hours dedicated to these camps: 75-80

NSS also undertakes social extension and outreach work, mostly within the college like (i) Cleanliness Drive (ii) Collection for Calamity Relief (iii) Blood Donation Camps etc. There are around 900 students enrolled in NSS. Each student is required to put in 120 hours.

**Journals subscribed**

- (a) Number of International journals subscribed: 16 (Online + Paperback)
- (b) Number of National journals subscribed: 79 (Online + Paperback)

## **KALINDI COLLEGE**

**Major Activities and Achievements**

Academic session 2015-2016 has been extremely successful and satisfying in terms of accomplishments and accolades in scholastic, co-scholastic and infrastructural development areas, leading to a complete all round development of our college. During 2015-2016, College has imparted education to 3557 regular students, about 1300 Non-collegiate students and about 2000 students of school of Open Learning. In the coming academic session, the college is going to introduce four new honours courses in Chemistry, Botany, Zoology, and Geography; and two vocational degree courses namely B.Voc. (Printing Technology) and B.Voc. (Web Designing). Three departments released their newsletter namely-Sententias (Journalism, monthly), Grammar of Politics (Political Science, two in a year) Hindi Sahitya Sangam Patrika (Hindi, Yearly). 15<sup>th</sup> volume of the Refereed Yearly Academic Journal was released on College Annual Day. 41 students of our college have secured 100% marks, 343 students have secured 95% to 99.5% marks and 565 students have secured 90% to 94.5% in various papers of different streams. On 26 September 2015 & 17<sup>th</sup> October 2015, Parent Teacher interactive sessions were held in college in which parent & students actively participated. Kalindi College with the Collaboration of Women International Network (WIN) provided free computer education to 160 girls on 9.2.2016. Kalindi College is immensely proud on receiving IInd prize for its Herbal Garden for the third consecutive year (2014-2016) at 58<sup>th</sup> Annual Flower Show. The College also bagged IIIrd prize in Rock Garden and 1<sup>st</sup> prize in Category A Class-III. The annual inter-college cultural festival Lehen-2016 was held on 19 and 20 February this year.

**Outstanding Honours/Distinctions**

Dr. Anula Maurya, Principal, has been Awarded "Best Academician Award 2015" for the remarkable and admirable contribution in the field of Education on the occasion of International Yoga Day (21<sup>st</sup> June, 2015) from Hon'ble Union Cabinet Minister, Sh. Kalraj Mishra.

Dr. Punita Verma, Associate Professor, Department of Physics, won 1<sup>st</sup> prize in 'Technival', Annual Tech Fest, 2016 organised by Department of Computer Science, Kirori Mal college, D.U.' on 7<sup>th</sup>, 8<sup>th</sup> March, 2016.

Dr. Sangita Dhal, assistant Professor, Department of Political Science, submitted the UGC Post Doctoral Research Award in march 2016 on the topic: The Prospects and Challenges of E-Governance: An Empirical Study of Information Communication Technology Practices in Odisha.

Dr. K. Vandana Rani, Assistant Professor, Department of Zoology, has been selected for the Faculty Training Program of the University of Delhi for the academic session 2015-16, one year Master Course in “Advanced Genomics and Proteomic Sciences” at the University of Nottingham, UK.

Dr. Nisha Goyal, Assistant Professor, Department of Sanskrit, awarded by Delhi Sanskrit Academy “Sanskrit Samaradhak Samman” on the occasion of Sanskrit Divas on 19.09.2015.

### **Research Projects**

**Research Project Title** Assessment of Packaged Foods for Toxins, Project Code: KC-301

**Principal Investigators** Dr. Shanuja Beri, Dr. K. Vandana Rani, Dr. Manisha Arora Pandit, (Zoology), Dr. M. Arunjit Singh (Botany). **Students’ Investigators:** 10

**Research Project Title** Microbial fuel Cell: An Efficient Benign Set Up for Electrochemical Cell For Removing of Impurities from Laboratory Generated Waste Water, Project Code: KC-302

**Principal Investigators** Dr. Tarkeshwar (Zoology), Dr. Amit Kumar (Chemistry), **Student Investigator** 03, B.Sc. (H) Zoology; 05, B.Sc. (H) Chemistry; 01, B.Sc. (H) Botany and 01 B.Sc. (P) Life Sciences.

**Research Project Title A Socio-Economic study of the condition of the Elderly in Old-Age Homes of Delhi, Project Code KC-303**

**Principal Investigators** Dr. Ruchi Tyagi, Dr. Indu Choudhary, Ms. Karnika Gaur,

**Students’ Investigators** 04 students from B.A. (Hons.) Journalism II yr, 02 from B.A.(Hons.) Political Science IIIyr, 01 from B.A. (Hons.) Political Science IIyr, 02 from B.A. (Hons.) Economics III yr and 01 from B.Sc. (Hons.) Maths II yr.

**Student Investigators** 03, B.Sc. (H) Zoology; 05, B.Sc. (H) Chemistry; 01, B.Sc. (H) Botany and 01 B.Sc. (P) Life Sciences.

**Research Project Title** Conversion of wind energy to electrical energy at Delhi Metro stations using light rotor turbines, Project Code: KC-304

**Principal Investigator** Dr. Punita Verma, Dr. Neetu Agrawal, Dr. Reena Jain

**Students’ Investigators** 08 students from B.Sc. Physics (Hons.) III yr and 02 from B.Tech Computer Science III yr.

**Research Project Title** Inventory and creation of Butterfly conservation in an urban setup, Project Code: KC-305

**Principal Investigator(s)** Dr. Varsha Singh, (Zoology), Dr. Sanavar Soham (Botany)

**Student Investigator** 10 students from, B.Sc. (H) Zoology; B.Sc. (H) Chemistry; B.Sc. (H) Botany and B.Sc.(P) Life Sciences.

### **Library Development**

The library resources have been enhanced during the year 2015-16 and the total collection of the library reached up to 78,518 books including book bank and Student Aided Found books. The Library users have been able to enlighten themselves by going through the newly added books. At present library is subscribing 87 magazines/journals and 13 newspapers in English and Hindi languages on different areas of interest for its readers. On the First floor of the library, Web center is available for access of E resources for the students and faculty members. The Library has a separate reading room for consultation purposes and photocopy facility is provided to the students and faculty members.

### **Publications**

Maurya A. (2015) June-July ”कालिदास के साहित्य में अन्तर्राष्ट्रीय प्रकाश वर्ष की झलक“ Interdisciplinary Journal of Contemporary Research. 2(3-2), 19-20

Maurya A. (2015 July – September) “वैश्वीकरण के युग में संस्कृत की प्रासंगिकता”-‘ अनुकृति’ 5(6)

Singh A. (2015) Padmakar ke Kavya mai Bimb Vidhan. Delhi, Apple Publication

Singh A. (2015) Swachandtavad ke do Dhruv Ghananand aur Prasad, Delhi, Apple Publication.

Singh. A. (2015) Swachandtavadi Kavya aur Prasad, Delhi, Apple Publication.

Deshraj (2015) Pratibha Vimarsh, Delhi, Bhartiya Vidhya Prakashan.

Deshraj (2015) Rangmanch evam Natyakala ek Samagra Adhyan Delhi Bhartiya Vidhya Prakashan

Deshraj. (2015) Shodh: Kyo aur Kaise Delhi Bhartiya Cooperation.

Tyagi R. (2015) Adhunik Bharat ka Rajnitik Chintan, Delhi, Hindi Madhyam Karyenvayan Nidheshalaya.

Rana P. (2015 May) Seeking Individuality and Overall Effect in French Post-Impressionist Paintings and French Urban Poetry. Research Scholar, (3-2), 11-13.

Dhal. S. (2016, Jan-March) Enabling Social Rights through Proactive Public Policy: Auditing Education and Health Sectors in India, Indian Journal of Public Administration, 52(1).

Tarkeshwar and Singh K. (2015) Biodiversity and its Conservation, Basic Environmental studies, PP-77-114.

### **Conference organized/attended**

#### Workshop Organized

Ms. Sweta Raj and Ms. Gunjan Verma, organized a workshop for students on “Empowerment of Entrepreneurship” in collaboration with the National Institute for Empowerment of Entrepreneurship” in collaboration with the National Institute for Entrepreneurship and Small Business Development (NIESBUD), Noida on 19<sup>th</sup> March, 2016.

#### Conference attended

Dr. Punita Verma, Associate Professor, Department of Physics, attended and presented paper at the “XXIX International Conference on Photonic, electronic and atomic Collisions, ICPEAC-13”, Molecular orbital perspective for inner shell couplings: Level diagrams. Held in Toledo, Spain from 22<sup>nd</sup> July-28<sup>th</sup> July, 2015.

**Faculty Strength** Permanent: 86; Ad hoc-73

### **Financial Allocation and Utilization**

Grant Sanction in Rs. 22,01,00,000/-

Utilized in Rs. 24,86,00,000/-

### **Placement details**

Number of students getting successful placements – 48 shortlisted

Number of Companies/industries coming for campus recruitment-12

Number of repeat recruiters-05

### **Number and name of Domestic/International (MoUs) signed with partners**

With Indian/Foreign Companies/Industry

With Indian Industry

B.Voc (Printing Technology) and B.Voc. (Web Designing) UGC approved.

Seat Sanctioned by UGC: 50 for B.Voc. (Printing Technology) Industry partners: Dainik Jagran, Noida.

Seat Sanctioned by UGC 50 for B.Voc (Web Designing) Industry Partners: Sisoft Technologies.

### **Extension and Outreach Work**

Number of camps organized in the surrounding areas-NSS-1, NCC-5

Number of people enrolled/covered in the camps-NSS-2 villages (Kair and Mitraon)

Number of students who worked in the camps-NSS-50, NCC-130.

Total number of hours dedicated to these camps-NSS Special Camp-168 Hours, NCC-10 Days

### **Journals subscribed**

Number of international journals subscribed-01 international and online journals through DULS and NList

Number of National journals subscribed-21 national journal and online journals through DULS and NList.

## **KAMALA NEHRU COLLEGE**

### **Major Activities and Achievements**

The Dept. of Department of Political Science collaborated with the Canadian High Commission of India to organize an interactive Panel Discussion on 'Economic Independence and Skilled Empowerment of Women in the South Asian Region' on February 1, 2016. The Panel comprised the Premier of the State of Ontario, Canada, Ms. Kathleen Wynne and women parliamentarians from Afghanistan, Pakistan, Nepal, Sri Lanka and India.

The French Language Laboratory was inaugurated in 2015 and with that KNC earned the distinction of being the first College in the University of Delhi to do so.

To mark the observance of the UN Decade of Sustainable Energy for all(2014-2024),the IARC Centre for UN conducted a short term course on sustainable energy under "RIO plus UN Sustainable Energy for All India Program" in collaboration with the Department of Political Science followed by UN certification exam in 2016.

Ms Toni McLaughlan (University of Delaware) has been a visiting faculty with the department of English, Kamala Nehru College for 2015-2016 as part of a collaboration with the English Language Fellow (ELF) programme of the Regional English Language Office (RELO, American Embassy) and was part of the Faculty Development Programme from May 3-5, 2016.

### **Outstanding Honours/ Distinctions**

Dr. Sarita Sharma (Sanskrit) and Dr. Geetesh Nirban (Philosophy) were both awarded Raman Fellowship for Post-Doctoral Research for Indian Scholars in United States for the year 2013-14 and 2014-15 respectively by the University Grants Commission. They were Visiting Scholars at the Northern Arizona University, Flagstaff and at University of California, Berkeley, CA.

Dr. Carmel Christi (Journalism) has been awarded the Fulbright-Nehru Postdoctoral Fellowship for US in 2015.

Dr. Sona Mandal of the Department of Economics has been selected as Postdoctoral Associate at the U.G.C Inter-University Centre for Humanities and Social Sciences functioning at the IAS, Shimla. Journalism's Ramesh Aroli's second poetry collection, *Julume* received a prestigious Kannada literary award 'Pu.Ti.Na Kaavya Prashasti-2014' in Bangalore in December 2015. Dr. Rita Malhotra's literary work has been included in the awarded thesis in Mumbai University in 2016.

Ms. Namita Paul, Ms Susan Thomas and Ms. Amrita Singh (English) have been awarded scholarships by Regional English Language Office (RELO, American Embassy) for online courses on 'Fundamentals of TESOL' and 'Teaching English Communicatively'. Further Ms. Susan Thomas and Ms. Amrita Singh were even

awarded Professional Development Travel Grant for Practicing ESL/EFL (English as a Second Language/English as a Foreign Language) which enabled them to attend the 50th Anniversary TESOL Convention at Baltimore, US from April 5-8, 2016.

### **Research Projects**

Implementation of a Successful “Switch To Energy Efficient Lighting And Home Appliances” Campaign in Delhi: A Social Marketing Strategy, Grant: Rs.4,00,000.

Principal Investigators: Dr. Soma Sen Gupta, Dr. Sona Mandal, Dr. Pankaj Kumar. Mentor: Dr. Anjan Sen, Assistant Professor (Geography), Delhi School of Economics, DU.

Enhancing Social Communication Skills of Children with Learning Disabilities using Physical Training Programme, Grant: Rs.3,50,000.

Principal Investigators: Dr. Mandeep Kaur, Dr. Saryu Ruhela, Dr. Archana Prashad, Mentor: Dr. N.K.Chadha, (Psychology), DU.

Promoting Student Participation and Collaborative Learning with the use of Innovative learning Applications: Undertaking a Pilot Faculty-Training Program in Delhi University Colleges, Grant:Rs.3,50,000,

Principal Investigators: Dr. Rupa Basu, Dr. Sarita Ghai, Dr. Reena Devi. Mentor: Dr. J.B. Singh, Principal, Sri Guru Gobind Singh College of Commerce, DU.

Consumer Evaluation of Financial Services in India, Grant: Rs.4,00,000,

Principal Investigators: Dr. Sheetal Kapoor, Dr. Azka Kamil, Vibhuti Vasishth. Mentor: Prof. Sri Ram Khanna, Faculty of Commerce and Business, Delhi School of Economics, DU.

### **Students with Distinctions**

NCC cadet Ms. Ananya brought honours to the College by representing the country at Sri Lanka in 2015. Pooja, Kanika, Shivani and Heena represented Delhi University in the All India Inter-Varsity Boxing Championship where a Gold and a Bronze Medal came our way. KNC bagged a gold and two silver medals in Boxing in the Delhi Olympic Week in October 2015 at Rajiv Gandhi Stadium, Bawana. Jasjot Kaur got the Bronze Medal in Gymnastics at the Delhi Olympic Week. Delhi State Judo Championship fetched two Silver medals and a Gold Medal. Having won a battery of medals in India Jyoti represented the Indian Kurash team in 63kg weight category and secured the third position at Chinese Taipai, China, 2015.

### **Library Development**

The College Library is fully automated and the prestigious DELNET membership has been obtained. It added more than 2660 titles during the year 2014-2015 and the total collection of books has reached now 92736 and 354 CDs and 445 DVDs. In addition 80 Journals /Periodicals and 11 Daily Newspapers (English /Hindi) are being subscribed to.

### **Publications**

Gupta, Soma Sen. (2015). Social Marketing of ‘Say No to Plastic Bags’ Campaign: A Case Study of Pushkar. *Akados-KNC*.

Khanna, Sanam. (2015). Sport, Surveillance and Speed in The Hunger Games Trilogy in Poonam Trivedi and Supriya Chaudhuri (eds.) *Fields of Play: Sport, Literature and Culture*. Delhi: Orient Blackswan. ISBN 978 81 250 57550.

Verma, Sangeeta. (2015). Hindi bhasha shikshan: sambhavna ke vikalpon ki khoj. *Akados-KNC*

Nirban, Geetesh. (Spring 2015). Ethical Implications of Environmental Concerns. *NAU GLOBAL: A Publication of the Centre for International Education*, Northern Arizona University.

Nirban, Geetesh. (December 2015). Dharma of Doves in Mahābhārata: An Ethical Reflection. *Vāgīśā: Referred Sanskrit E-Journal*, 1(1), ISSN 2455-4413.

Nirban Geetesh (December 2015). A Case of Gender Conflict: Radical Ambā in *Mahābhārata*, *Sanskrit Manjari*, The International Refereed Quarterly Research Journal of Delhi Sanskrit Academy (Govt. of N.C.T. of Delhi), 13(1-2), ISSN 2278-8360.

Sethy, Minakshi. (January 2015). Medieval Vaisnavism in Orissa: A study on Sri Chaitanya-caritamrta and Chaitanya Bhagavata. *Odisha Review*, ISSN No. 0970-8669.

Sethy, Minakshi (January-March 2015). Medieval Vaisnavism in Orissa: A study on Sri Chaitanya-caritamrta and Chaitanya Bhagavata. *Niladri Bihar*, 4(6).

Sethy, Minakshi. (July-September 2015). Bhakti in Vaisnavism. *Niladri Bihar*, 5(1).

### **Conferences Organised / Attended**

#### **Conferences/ Seminars/ Workshops Organised**

The Dept. of English organised a two-day international conference on 'Urban Spaces: Representations, Practices, Experiences in the Indian Subcontinent' at the India International Centre, Delhi in 2015

The Department of Sociology organized a conference on "Mapping Contours of Culture/s: Overlaps and Contradictions" in 2015

The Dept. of Psychology hosted national seminar on 'Fundamentalism: Identities Unveiled' as sponsored by ICSSR IN 2015.

The Dept. of Hindi organised a national seminar sponsored by Sahitya Academy on "Bharatiya Sahitya Mein Dalit Stree Ka Chitran Aur Chintaaein Vishesh Sandarbh Saamajik Parivesh" in 2015.

The Dept. of Journalism Department organized a workshop on Creative Writing conducted by Ms. Libby Paul of the University of South Carolina in July 2015.

The Psychology Department hosted a six-day workshop on "Alternate Therapies" with resource persons Dr. Amit Sen and Dr. Kavita Arora as well as a Workshop on "Dance and Movement Therapy" by The Creative Movement Therapy Association of India in August 2015.

The Dept. of History organised a workshop in collaboration with INTACH in from Feb 29-March 28, 2016 on Heritage Awareness.



The Dept. of Mathematics organised a state level seminar on 'Mathematics and its Application' in March 2016.

The Dept. of Geography organised a national conference on 'Himalayan Perspectives: Land, People and Resources' on April 12, 2016.

### **Conferences attended Presentations at Conferences/Seminars by Faculty**

Dr. Rita Malhotra (Mathematics)

\**Two Stage Intuitionistic Fuzzy Time Minimizing Transportation Problem* at International Mathematics Conference (RAOTA), University of Delhi, January 2016.

Dr. Soma Sen Gupta (Commerce)

\**Reinventing a Traditional Green Product in the Contemporary Globalised World: Social Marketing of Traditional Perfume 'Attar* at 'International Geographical Union' (IGU) Conference, Moscow. August 17-22, 2015.

Dr. Jyoti Dhawan (Commerce)

\**CG Disclosure Practices: A Study of Selected Companies* at 4th Annual International Convention on Corporate Governance and CSR: Retrospect and Prospects', Department of Commerce-University of Delhi, December 18-19, 2015.

Ms. Paul Namita (English)

\**Spy thrillers and the nation*" at National Seminar on 'The Idea of India in the 21<sup>st</sup> Century: Cinematic Perspectives', Indian Institute of Advanced Studies (IIAS) Shimla, May 26-28, 2015.

Dr. Kalpana Bhakuni (Geography)

\**Smart Cities: Next Generation Cities are here* at National Conference on 'Smart Cities: Vision and Challenges', India International Centre, April 6, 2015.

\**Stewardship of Ecological Sustainability in the Himalayan Region: Challenges and Solutions* at International Conference by Regional Studies Association at Melbourne, Australia, August 30-September 2, 2015.

\**Identification of Potential Ecotourism Areas in Nainital District through GIS Application*, at 35<sup>th</sup> INCA International Congress on the theme of Spatial Governance for Development, Planning Smart Cities and Disaster Management, CSRD, Jawaharlal Nehru University, December 15-17.

Dr. Sangeeta Verma (Hindi)

\**Chale Na Desh Me Desi Bhasha- Hindi Va Anya Bhartiya Bhashon Kee Satta, Swadheenta; Asmita Ke Prashan* in a National Seminar at Shaheed Bhagat Singh College, University of Delhi, February 9-10, 2015.

\* *Mukt karo nari ko manav: sumitra nandan pant kee drishti main naari* in a National Seminar at Laxmi Bai College, University of Delhi, February 18-19, 2015.

\* *Hindi Kavita Shikshan Ke Vividh Aayam* in a National Seminar at Vivekananda College, University of Delhi, March 26-27, 2015.

\**Hindi Filmon Main Kisan* in a National Seminar at Ramanujan College, University of Delhi, Mar 31-April 1, 2015.

Dr. Shobhana Warriar (History)

\**Gender, Class and Community of labour in Colonial Madras Presidency: 1914-1951* at the First ELHN Turin Conference, 2015.

Dr. Geetesh Nirban (Philosophy)

\**Mindfulness as an ethical ideal in Bhagavadgītā* at Second International Conference on Mindfulness at Sapienza University, Rome-Italy, May 11-15, 2016

\**Environmental Ethics as a Means of Social Transformation: Insights through the Religious Study of Mahābhārata* at India at Crossroads: The South Asian Studies Association Tenth Anniversary International Conference at TERI University-New Delhi, March 18-20, 2016

\**Compassion in Hinduism: Analyses from the Perspective of the Mahābhārata*, at International conference on 'Mindfulness & Compassion: The Art and Science of Contemplative Practice' at San Francisco State University-US, June 3-5, 2015

\**Environment and Ethics in the Mahābhārata*, at Department of South Asian Studies, University of California, Berkeley- US, April 20, 2015

\* *Environmental Concerns in the Mahābhārata*, at International Conference of American Academy of Religion at Santa Clara University, California- US, March 20-22, 2015

\* *Indian Cultural Tradition in Film '1000 Rupee Note'* at Sedona International Film Festival, Sedona-Arizona- US, March 15, 2015

\* *Hiḍimbī in Mahābhārata* at International Panel Discussion and Dramatized Reflection on *What Can an Ancient Hindu Epic Teach Us?* by Department of Comparative Cultural Studies by Department of Comparative Cultural Studies, Northern Arizona University- US, March 8 2015

\**Environment and Mahābhārata* at International Workshop on *Mahābhārata* by Department of Comparative Cultural Studies, Northern Arizona University- US, March 7, 2015.

Dr. Maitreyee Kumari (Sanskrit)

\**Sanskrit Sevika Pandita Ramabai* in National Seminar by Delhi Sanskrit Academy, February 27-28, 2015.

\**Upnishada Kalin Shiksha ki Aadhunik Sandarbh main Upyogita* in a National Conference by Hindu College, University of Delhi, April 22-23, 2015.

\**Puraneshu Shrishti Vigyanam* in a National Seminar by Uttarakhand Sanskrit Academy, Haridwar, November 27-29, 2015).

\**Sanskrit Natya Sahitya main Prakrit Vivechan* in a National Seminar by Rashtriya Sanskrit Sansthan, New Delhi, December 4-6, 2015

**Faculty Strength** Permanent: 99, Adhoc: 62, Guests: 16

### **Financial Allocation and Utilization**

(a) Grant sanctioned: Rs 22,23,39,760

(b) Utilized: Rs 25,75,92,835(unaudited)

### **Placement details**

Number of companies coming for campus recruitment: 5

Number of repeat recruiters: 4

### **Extension and Outreach Work**

The Women Development Cell of the college collaborated with NSS to jointly conduct a workshop in September 2015 in collaboration with Crowd Guard from Zurich which aims at raising consciousness among the youth on the concept of safety issues in public places.

## **KESHAV MAHAVIDYALAYA**

### **Major Activities and Achievements**

The college was awarded Grade 'A' by NAAC. An 'Internal Quality Assurance Cell' (IQAC) was formed as per mandate of NAAC. Tree plantation drive was done on Independence Day. The students and teachers participated in "Run for Unity" on Ekta Diwas. Various Seminars were conducted throughout the year namely Dr. B.R Ambedkar's vision and thoughts around Indian Constitution, Women issues and their righteous solutions by Delhi Women Cell

and free eye check-up camp in collaboration with Centre for Sight. A National conference was organized by department of Psychology. A workshop was organized in association with GOOGLE, India on 'Cyber Security and Threat'.

The students brought home lots of awards for both academic and extracurricular activities at variety of forums like IIT, SRCC, LSR and AIIMS and their participation and achievements in various sport forums eg Delhi Olympic Games, National and Inter College Taekwondo Championship , Delhi University Inter College Ball Badminton, Netball Championship and swimming competition

### **Outstanding Honours/ Distinctions**

In the month of February, 2016, our college was awarded Grade 'A' by NAAC i.e. National Assessment & Accreditation Council.

Dr. Jasmeet Singh, Assistant Professor, Department of Physics, has been selected for Raman Post-Doctoral Fellowship awarded by UGC to pursue research in USA.

Dr. Vipin Negi, Associate Professor, Department of Commerce, is pursuing Post Doctoral Fellowship given by ICSSR.

VAGMITA, the literary society of the college, has been adjudged as the BEST LITERARY society by The Education Tree, with over 50 achievements coming from Poetry wing and more than 20 achievements from the Debating wing.

### **Research Projects**

University of Delhi, 2015-16, Analyzing the Influence of Product Harm Crisis (Maggi Noodles Revelation) on Consumer Buying Behavior: A systematic survey based study and creating awareness amongst consumers about basic adulteration testing methods, 3.5 Lakhs.

University of Delhi, 2015-16, Developing virtual application to manage academic stress and anxiety among college students, 3.5 Lakhs.

University of Delhi, 2015-16, Development of an automated system for Delhi University Community Radio Transmission and Management: Software development and assessing its implementation, 5 Lakhs.

University of Delhi, 2015-16, To design and develop an instrument/device to control emissions of SO<sub>x</sub> and NO<sub>x</sub> from motor vehicles, 5 Lakhs.

### **Students with distinctions**

Vikram Singh Dalal, Saurabh Kaushik, Gaurav Lochab and Nischay Trihan, secured III position in 4x100 mt. medley relay in Delhi University Inter College Swimming Competition 2015-16.

Virender Kumar secured II position in National Taekwondo Championship 2015- 16

Virender & Sarthak secured III position in Delhi University Inter College Taekwondo Championship 2015-16.

Aditya secured II position in Delhi University Inter College Taekwondo– Championship 2015-16

Tarun Mudgal was selected as Microsoft Student Partner for the year 2016 and awarded scholarship for Udacity Android Developer Nanodegree by Google India.

### **Library Development**

Library has purchased 951 books in the year 2015-16. Now the total number of library books is 23919. Library has also purchased 19 newspaper and 35 magazines in that year. Moreover accessories such as vacuum cleaner (1), Library chairs (50) and Slotted angles Racks (20) has also been procured in the year 2015-16.

### **Publications**

Kumar, P., 'Factors that determine the Shopping Behaviour of Customer of Organized and Unorganized Retail Outlets:-A Statistical Survey of Customer Behaviour of Shopping in Delhi and NCR', (2015), International Journal of Management, IT and Engineering, IJMIE, 5(4).150-184.

Arora, H., &Arora, P., (2015). 'Service quality dimensions: an empirical investigation of commercial banks in India using SERVQUAL', International Journal of Services and Operations Management, 21(1), 50-72.

Goel, N., & Sehgal, P., (2015), 'Fuzzy classification of pre-harvest tomatoes for ripeness estimation - An approach based on automatic rule learning using decision tree', Applied Soft Computing , 36, 45-56.

Kaur, D., Sharma, V.K., Kapoor, A., (2015). 'Effects of Prism Index on Sensitivity of Lossy Mode Resonance Sensors Operating in Visible Region', Journal of Nanophotonics, 9(1), 093042-1-16.

Singh, D., et.al. (July, 2015), 'Manufacturing Inventory Model for Deteriorating Items with Maximum Lifetime under Two-Level Trade Credit Financing', International Journal of Computer Applications, 121(15), 0975 – 8887.

Rathore, D., & Dr. Bhatia, H., 'Evolution of Emotional Intelligence', Journal of Positive Psychology, 4 (1, 2), 89-95.

Kochar, R.K., &Sharma, D. (2015), 'Role of love in relationship satisfaction', International Journal of Indian Psychology', 3(1), 81-107.

Singh, S., (2015), 'Effect of Different Types of Warm up on Pull Ups', International Journal of Movement Education and Sports Sciences (IJMESS) Annual Referred & Peer Reviewed Journal, 3(1), 81-85.

### **Conferences organized**

The Department of Psychology organized a National Conference on "Youth in Contemporary Society: Issues and Challenges" on 28th and 29th March, 2016. The Conference was co-sponsored by the Indian Council of Social Science Research (ICSSR).

**Faculty Strength** Permanent: 48 ; Ad-hoc: 49 (7 against leave vacancy) Guest: 05

### **Financial Allocation and Utilization**

(a) Grant sanction in Rs.: 14, 38, 00, 000.00

Non-Planning (13, 85, 00,000.00 + 13, 00,000.00) + Planning (40, 00,000.00)

(b) Grant utilized in Rs. : 13, 97, 04, 208.00

Non-Planning (12, 84, 73,769.00 + 8, 93,369.00 +9, 32, 759.00) + Planning (94, 04,311.00)

### **Placement Details**

Number of students getting successful placements: 39

Number of Companies/ Industries coming for campus recruitment: 15

Number of Repeat recruiters: 6

#### **Extension and Outreach work**

(a) Number of drives organized in the surrounding areas: 03

(b) Number of people enrolled/covered in the drives: 60

Number of students who worked in the drives: 80

Total number of hours dedicated to these drives: 260

#### **Journals subscribed**

The library has the facility to access all the International & National Journals provided/available by Delhi University Library System using Internet.

#### **Other significant information**

Scholarships fellowships are awarded to many students by various government organizations like INSPIRE & CBSE. Many students from B.Sc. (H) Physics III year have cleared JEST (Joint Entrance Screening Test) and JAM (Joint Admission Test). The Department of Management Studies organized various guest talks and workshops during the year. Few of them are as CA Yatinder Khemka conducted a session on “Introduction and Roadmap to Ind AS, IFRS and Financial Statements as per the New Companies Act, 2013” on 15<sup>th</sup> March, Dr. Sanjay Singh (Erasmus Mundus Will Power Fellow), Faculty at the Asia Pacific Institute of Management conducted a three day certified SPSS workshop for the final year students on 17<sup>th</sup>, 19<sup>th</sup> and 29<sup>th</sup> February, Vishesh Jain and Pranav Arya (alumni of BBS) pioneers of skill building and employability enhancement start up ‘Talentio’ organized a workshop covering all aspects of interview preparation on 5<sup>th</sup> and 12<sup>th</sup> February, 2016.

## **KIRORI MAL COLLEGE**

#### **Major Activities and Achievements**

The College in continuity with its past performance has shown vitality in all its activities. Teachers are actively participating in national and International conferences. Students are doing well. This year 32 students from various undergraduate and post graduate courses were awarded for their excellence in academics. Many students have topped competitive examinations like BARC, BHU, IISER, TIFR from Chemistry, Physics and other disciplines. More than 25 students have scored top 200 ranks in the prestigious IIT-JAM 2016. The college awarded fee concession to 414 students of over Rs. 8.5 lakhs. FOSTAS, the Foreign Students Association which was the first such Society in Delhi University has completed a decade of its existence during the year. Our student Rahul Gupta of Geography Final year has climbed various peaks, located in the Zaskar range of the Western Himalayas, near the Karakoram Range and has made us proud.

During the year the College constituted different societies considering the needs of the students like the North East cell, The equal opportunity cell, alumni association and the IQAC for assuring the quality in teaching –learning.

This year has been spectacular in that we celebrated the 125<sup>th</sup> birth anniversary of Dr. B.R. Ambedkar throughout the year with the dignitaries being Professor Subroto Mukherjee, Shri Sandeep Kumar, Minister of Social Welfare, Government of Delhi, Dr. Subramanian Swamy, Prabhat Jha, the Rajya Sabha MP among others.

#### **Research Projects**

Chemistry

Dr. Reena Saxena: On-line preconcentration using modified resins for speciation of Cr (III) and Cr (VI) and determination in water by Flame Atomic Absorption Spectrometry and Ion Chromatography SERB, DST 23,48,000

Dr. Rupesh Kumar: Development of Microbial system in Combination of Metal Accumulating Plants to Remediate Contaminated Sites. DST 15,76,000

Dr. Vinod Kumar: Exploration of Nanocrystalline Metal Oxides for Photocatalytic Degradation of Organic Pollutants. UGC Start up Grant 6,00,000

Dr. Sunil Kumar Singh: Carbohydrate-derived Water Soluble Biologically Active Dihydropyridines and Other Heterocycles UGC Start up Grant 6,00,000

#### Geography

Dr. Kaushal Kumar Sharma (PI)/ Dr. A.K. Tripathi (co-PI) 2013-TILL DATE Baseline Survey or Reconstruction And Rehabilitation of rural Communities for Sustainable Livelihood and Socio Economic Empowerment in Gavni and Chandrapuri Villages of Rudraprayag District of Uttarakhand MAZAGON DOCK LTD, MUMBAI 1,49,00,000

Dr. Seema M Parihar "Gender Atlas of India: A Thematic Perspective Series 2 (Principal Investigator) from Ministry of Women and Child Development, Government of India Ministry of Women and Child Development, Government of India 7,07,000

#### Zoology

Dr. Anita Kamra Verma: Assessment of humoral immune response against Ebola virus glycoprotein peptide using Balb/c mice as model. DIPAS, DRDO 10,00,000

#### Library Development

**Total budget** Rs. 24,06,015/-

**Number of books added** 3024

**Total books** 144678

-Book bank with a collection of 5897 books

-25 new edition books have been added to reference section

38 Angels, 75 notebooks for visually handicapped

#### Conference Organized /Attended

The Department of Chemistry has organized National Conference on "EMERGING TRENDS AND FUTURE CHALLENGES IN CHEMICAL SCIENCES (ETFC- 2016)" on 3<sup>rd</sup> -4<sup>th</sup> February, 2016 at the Conference Centre, University of Delhi.

FOSTAS, The Foreign Student's Association organized the International Conference on "Conflict, Resolution and Peace", in the presence of Prof. S.D. Muni, Former Ambassador and Special Envoy, Government of India and Mr. Zahidul Islam, Counsellor of the High Commission of Bangladesh in India. 125 participants from various colleges and Universities from 17 different countries were also present in the event.

Conferences Attended:

Dr. Seema Joshi : "Female Labour Force Participation Trends and Policies in India: An Overview" in Co-ordination Meeting at the APO experts held at New Delhi

Dr. Mamta Sareen Presented a paper on "Wireless Network Security Vulnerabilities and Countermeasures" in UGC sponsored National Seminar on the topic "Wireless and Mobile Communications and Network" on April 11, 2015.

Ms. Madhur Ajmani Sethi: "Redefining Policies to combat violence against women" at Bandung Spirit Conference 2015, Indonesia

Dr. Reena Saxena presented paper (poster) in International Conference on Green Initiatives in Science and Technology organized by Manav Rachna College of Engineering, Faridabad.

Dr. Akhilesh Bharti Presented paper (poster) in National conference at the Department of Chemistry, Banaras Hindu University, Varanasi.

Dr. Vinod Kumar presented a paper (oral) in National Symposium on "Recent Advances in Analytical Sciences and

Applications”organized by Jamia Hamdard, New Delhi

Dr. Anita Kamra Verma “Applications of Nanobiotechnology in Clinical Diagnostics” in Recent Trends in Nano-Bio interface” Special Centre for Nanosciences, JNU, New Delhi. ( by invitation)

Dr. Harish presented a Research Paper in the National Seminar organized by Rashtriya Sanskrit Sansthan, Kalidasa Academy and Bharti College from 13-14.02.2016

#### **Faculty Strength Permanent/Temporary/Adhoc 157/0/42**

#### **Financial Allocation and Utilization (in Lacs)**

Allocation: Rs. 3,914.43

Utilization: Rs. 3,914.43

#### **Placement details**

Number of students getting successful placement: 62

Number of Companies coming for campus recruitments: 11

#### **Number and name of Domestic/ International (MoUs) signed with partners**

The college has signed an MoU in SCIENCE SETU program which has been initiated by DBT, Govt. of India and NII, National Institute of Immunology that aims at bridging the gap between undergraduate colleges and reputed scientists from research institutes.

#### **Extension and outreach work**

NSS-SAHYOG Classes are regularly held for children belonging to poor families from Monday to Saturday from 3pm to 5pm. About 50 children are under this programme and 38 Volunteers help them to excel in studies

NSS-SAHAS: NSS organized workshops on women empowerment covering the areas of education, health and sanitation, especially in Chandrawal Village.

ENVIRONMENT CELL: Vermin Compost Bed (12X4X2 feet) has been put up in the college nursery for improving the environment

BLOODDONATION CAMP: 12th Oct 2015, 2nd March 2016, NSS and Zoology society in association with Rotary Club

DST INSPIRE camp 21st-25th Dec 2015 sponsored by Department of Science & Technology wherein 200 school students were given hands on training.

#### **Journals subscribed**

The library is subscribing to 28 journal in different subject, 30 different periodical / Magazine of general taste and 19 daily/periodical newspapers. Library is providing INFLIBNET-NLIST to teachers.

## **LADY IRWIN COLLEGE**

#### **Major Activities and Achievements**

Fourteenth Raushni Deshpande Memorial Oration, Technology Innovation: Creating Value for Under-served Communities delivered by Dr. Arun Kumar, President, Development Alternatives & Managing Director, Tara Machines and Tech Services, presided over by Prof. (Dr.) K.K. Dwivedi, President, Global Academy of Doctorates, organized by the Department on March 9, 2015 Annual Symposium on Sustainable Development, “Green Energy in Buildings: A Paradigm Shift” was organized by Department of Resource Management and Design Application, Lady Irwin College, Delhi University and School of Planning, Design & Construction, Michigan State University, USA, supported by the Ministry of New and Renewable Energy, Government of India, at the Indira Gandhi National Centre for the Arts, New Delhi on March 11, 2015. Two day Conclave on Communication for Development (C4D).

13th and 14th March'2015. Annual Day of Rajkumari Amrit Kaur Child Study Centre, assisted by students of M.Sc (HDSC) program, February 2015

### **Outstanding Honours/ distinctions**

Shikshak Award, September 2014 to Dr. Anupa Siddhu, Director

Nina Sibal Award, August 2014 to Dr. Anupa Siddhu, Director

Best Teachers Training Institute Award by India's No. 1 Brand Award 2015

Best College Award for rendering service to younger generation and exemplary performance and contribution to the work at International Education and Leadership Summit by Indo Global Chamber of Commerce, Industry and Agriculture (Pune, India)

Emerald Literati Network Awards for Excellence Kwatra S, Pandey S, & Sharma S, Understanding public knowledge and awareness on e-waste in an urban setting in India: A case study for Delhi, Management of Environmental Quality, Vol. 25 No. 6, 2014, pp.752-765, ISSN: 14777835

Teaching Excellence Award for Innovation on the occasion of the 93rd Foundation Day, on 1 May 2015, the University of Delhi for the commendable work shown in the Innovation Project during the academic session 2014-15.

### **Research Projects**

#### **Major Projects**

Conflict Resolution: Dealing with Violence and aggression in school going children.

Prevalence and risk factors of metabolic syndrome among young BPO employees in NCR: Development of a lifestyle management program focussing on modifiable risk factors of metabolic syndrome

Development of Behaviour Change Communication Module for Athletes'

Hydration and Sports: Effectiveness of a BCC module

Community Radio and Hill Women's Participation in Health Communication

Capacity Building of Youth regarding Energy Management for Sustainable Development

Life-course studies

#### **Library Development**

Fully automated, Fully wifi with online access of national and international journals. Computer laboratory within library and reading room for research scholars, PG students and Faculty

#### **Publications**

Chaudhary, N. (2015). Commentary. Mothers and others: The cultural construction of obvious and obscure identities. In K. Cabell, C. Cornejo & J. Valsiner. Making meaning, making motherhood. Charlotte, NC: Information Age.

Chadha, R., & Mathur, P. (Eds) (2015). *Nutrition: A Lifecycle Approach*. New Delhi: Orient Blackswan. ISBN 9788125059301.

Singh, A. Et.al. (2015). *Foundations of Human Development: A Life Span Approach*, Orient BlackSwan.



Sekhri, S. (2014). Textbook of Fabric Science: Fundamentals to Finishing. PHI Learning Private Limited-New Delhi (2010), (Reprinted, October 2014). ISBN: 978-81-7844-331-0.

Malaviya, R. (2014). *Rays from the Darkness: Bibliotherapy Book for Children*. New Delhi. Global Books Organisation. ISBN: 978-93-80570-61-7

Khanna. A,S, Sain., Gaur, R., Dhanda, K (2015). 'Jankar Bhi Anjaan'(Puppet Story book) Published by Aseem Charitable Education Trust (Delhi) and Society for Promotion of Youth and Masses(SPYM), Delhi, ISBN No. 978-81-928043-5-4

Goel, S., Seetharaman, P., & Kakkar, A. (2015). *Interior Space Designing* (2nd ed.). New Delhi: Elite Publishing House Pvt. Ltd.

Mital, M., & Jain, M. (2015). Environmental Management of Key Resources, Introduction to Sustainable Development, Introduction to the Concept of Resources, Resources and Developmental Issues: Need for Sustainable Development, Sustainability and Management of Key Resources, Sustainable Business Practices. *Resources and Sustainability*. New Delhi: Orient Blackswan Publication Private Limited.

#### **Articles in Journals/ Chapters in Books**

Siddhu, A. & Mathur, P. (2015). Energy. In R. Chadha, & P. Mathur (Eds.) *Nutrition: A Lifecycle Approach*. (pp 31-45). New Delhi: Orient Blackswan. ISBN 9788125059301

Chaudhary, N. & Shukla, S. (2014). "Children's work is to play": Beliefs and practices related to childhood among Indians. In, J. L. Roopnarine, M. Patte, J. E. Johnson, & D. Kuschner (Eds.) *International Perspectives on Children's Play*. Open University Press/McGraw Hill Education.

Bansal, P.G., Toteja, G.S., Bhatia, N., Kishore, N.V., & Siddhu, A. (2015). Impact of weekly iron folic acid supplementation with and without vitamin B12 on anaemic adolescent girls: a randomised clinical trial. *Eur J Clin Nutr*, 23, 1-8 \*(Impact factor: 2.709)\* \*

Malaviya, R. (2015). Disability : A Training module for Central & State Govt. Officials In-Service Training and Sensitization of Key Functionaries of Central and State Governments, Local Bodies and Other Service Providers for Ministry of Social Justice and Empowerment (GOI) and Rehabilitation Council of India.

Kalra, M. B., Chadha, R., Mathur, P. (2015). *Healthy Food Choices for School Children*. India. ISBN No. 978-93-80570-88-4.

Chadha, R., & Mathur, P. (Eds) (2015). *Nutrition: A Lifecycle Approach*. New Delhi: Orient Blackswan. ISBN 9788125059301. Seth, U., & Kaul Bhatia, N. (2014). Development of Nutrition Education Module for Healthy Lifestyle of Adolescents. In *Technical Series 5, Lady Irwin College*. Global Books Organization. New Delhi.

Anand, S. & Kumar, A. (2015). Can equality be achieved in reality? Analyzing the role of Community-Mediated Communications in Health Communication. *International Journal of Communication*, 25 (1-2), 137-155.

Kayina, H., & Goel, S. (2015). Stimulating emotions as a strategy for an enhanced retail experience. *International Journal of Applied Home Science*, 2(11&12), 264-267. ISSN: 2394-1413.

### **Conferences organised/ attended**

Sanjam Randhawa Memorial Seminar on the theme “Innovative developments in Textile Crafts” was organized on 16th February 2015.

National Conference on Learning, organised by Deptt. Of education Department of Education, Lady Irwin College, New Delhi, India (March 13, 2015).

National Nutrition Week 2014 was celebrated on 4th Sept, 2014 by organizing a seminar on “Safe and Nutritious Foods for Active Youth” in collaboration with Protein Foods and Nutrition

Rhythms of resistance in family and society, International Seminar, HDCS Department, Lady Irwin College; ICSSR and University of Aalborg, Denmark, 24-26 sept 2014, India Habitat Centre.

**Faculty Strength** Permanent/ Temporary/ Ad-hoc: 54+55= 109

### **Journals subscribed**

Number of international journals subscribed ( online+ paper back version): **33**

Number of national journals subscribed (online+ paper back version): **70**

## **LADY SHRI RAM COLLEGE FOR WOMEN**

### **Major Activities and Achievements**

Numerous activities were organized in Lady Shri Ram College during the year 2015-2016. *‘Being Young and Woman’*: Dialogue with students and faculty members from Fairfield University, Connecticut was held on the 5th of January, 2016. Themes discussed included the role of the family in development, identity formation within complex and heterogeneous societies, relationships/intimacy and negotiating the multiple worlds that young people find themselves belonging to simultaneously. *Disaster Risk Reduction and Community Resilience Building*: Half day workshop organized in collaboration with Disaster Research Program, JNU on 20 January 2016. This was an initiative of sensitizing the youth by involving them in a participatory neighbourhood mapping programme. LSR has been identified as the nodal college for this programme which aims to work with students and various societies such as NSS, environment clubs to sensitize and make them part of social citizenry. *‘Chat With a Diplomat’*: Session hosted by the Department of Political Science in association with Global Youth India and the American Centre on 22<sup>nd</sup> September 2015 on India-US relations and the American Culture. *Visit of Principals from Andhra Pradesh*: 30 Principals, lecturers of government Colleges along with Joint Director, Collegiate education department of Andhra Pradesh visited Lady Shri Ram College for women on 6th January, 2016 as part of a 5 days training program on leadership development organized by NUEPA for women administrators of Andhra Pradesh. The principals have come from places like Guntur, Anantpur, Kakinada, Kurnool, Ongole, Vishakapatnam. *Domestic Violence and Sexual Harassment of Women*: Workshop with some of the city’s top judicial magistrates organized by The Internal Complaints Committee (ICC) of the college along with the Women’s Development Committee on safety of women at work place and under the premises of a shared home. *Anubandh- 100 Mile Communities*: Ms. Ela Bhatt was invited to speak on her latest book titled *Anubandh* followed by a Panel Discussion with the Principal and 2 student representatives on the relevance of Sustainable Development in the 21<sup>st</sup> Century and Conscious Capitalism. *Visit by the High Commissioner of Australia*: His Excellency Mr Patrick Suckling on the 22<sup>nd</sup> of January, together with members from the Australia–India Institute who spoke to students about Australia-India Relations. *Pandit Hariparasad Chaurasia’s Recital*: Under the SPIC MACAY-LSR Chapter, Panditji was invited to perform at LSR.

### **Outstanding Honours / Distinctions**

Dr. Vasudha Pande: Daughter of Uttarakhand Award given by Shail Savera and Newspaper Owner Congress, 2016

Dr. Vartika Nanda: Ojaswini Vashisth Alankaran, The Javtri Devi Joshi Award for contribution in Human interest stories and Women Achiever Award by Delhi Study Group and featured in the Limca Book of Records 2015 for authoring the first collection of poems written by women inmates of Tihar Jail.

Dr. Sunalini Kumar: Fulbright Nehru Post Doctoral Fellowship 2016-17 for conducting research at Columbia University, USA

Ms. Meenakshi Pahuja: Limca Book of Records 2016

Mr. Anugyan Nag: Collegium Member at the 34<sup>th</sup> La-Giornet Cinema Del Muto-Pordenone, Italy

### **Research Projects**

Under the University of Delhi Innovation Project Scheme, **Project Codes LSR 301** awarded to Psychology and Elementary Education departments of the College. Period of project- 2015-16. Funding agency- University of Delhi. Amount sanctioned- Rs. 3 lakhs.

Integration of Graphic Calculators in Kendriya Vidyalaya Schools: A CASIO India Industry Sponsored Project. Period of project- July 2014 to May 2015. Funding agency- CASIO. Amount sanctioned- This was a project sponsored by CASIO wherein they took care of the resources and costs incurred.

JNU-Disaster Research Project on Neighbourhood Mapping of Disaster Preparedness and Community Resilience. Period of project-July 2015-March 2017. Funding agency- . Amount sanctioned Rs.2.5 Lacs.

ENACTUS Mahindra Rise Special Competition Grant, KPMG Business Ethics Grant and ENACTUS WalMart Women's Economic Empowerment Project for LSR ENACTUS Team. Period of project-2015-2016. Funding agency- Mahindra Rise, KPMG and WalMart respectively for each of the 3 grants.

### **Students with Distinctions**

Our students have won awards at the national and international level and brought laurels to the College.

NSS-LSR volunteers Apoorva Sharma, Akshita Singla and Malvika Verma conceptualized a rural entrepreneurship model by the name Basta:Waste to Worth and were selected to present their ideas at the UN Headquarters, New York as part of the US Based Non Profit A Million for a Billion and India Partner Connecting Dreams Foundation Programme.

Aparna Sachdeva was selected to represent the University of Delhi as part of the Student Study Abroad Programme at King's College, London. She also received the Aket Kansil Memorial Award presented for the Visually Impaired students securing highest position at the CBSE class 12<sup>th</sup> examination.

Aashi Rastogi won the Gold Medal in the Asian Air Gun Championship and the Asian Shooting Championship held in Kuwait.

Ananya Chopra won the Team Bronze in the 7<sup>th</sup> Junior Shot Gun Championship held in Finland and the 12<sup>th</sup> International Shot Gun Championship held in Italy.

SUO Surbhi Meena represented India as a Youth Ambassador as part of the NCC Youth Exchange Programme to Russia.

SUO Damini Rathore represented India as a Youth Ambassador as part of the NCC Youth Exchange Programme to Singapore.

Diksha Pandey, Ipsita Dasgupta, Mehar Panwar, Nivedita Jha and Rijhima Rishi were selected by Citizens Alliance, an empaneled I&PRD, Govt of Bihar for a field research project on Inclusive Development titled Badh Chala Bihar.

Swastika Jajoo won the International Blogger Contest organized by the Jaipur Literature Festival. Invited to write officially for the festival from 18th to 26th January, 2016 and was selected to attend the Global Youth Consultation as a member of the United Nations Major Group of Children and Youth to Doha, Qatar on October 1st and 2nd, 2015 where she was part of the Drafting Committee.

Parinaaz Saini was selected to represent the country by Special Olympics Bharat under the Sports Authority of India Special Olympics Event- GENUIN: Social Impact Summit at Los Angeles, USA.

### **Library development**

Total budget: Rs. 20 lakhs

Number of books and journals added: 989 books and journals added

Internet facilities upgraded- YES

### **Publications**

#### **Books**

Akalamkam, K. (2016). *Grow with science. Class 6, 7 and 8*. New Delhi: Headword publishers. ISBN-978-38-393275-7

Verma, K. (2016) *Hindi mein Shakespeare ke sukhant natak : Anudit bhasha aur kathya*. New Delhi: EPH. ISBN-978-93-5073-610-4.

Joshi, R. (2015). *The Simla paintings and other stories*. Delhi: Heritage Publishers.

Kalra, S. (2016). *Muktibodh aur Raghuveer Sahay ke kavya ki antarvastu*. Delhi: Sanjay Prakashan. ISBN: 978-81-7453-324-1.

Nanda, V. (2015) *Raniyan sab janti hain*. New Delhi:: Vani Prakashan. ISBN: 978-93-5072-929-8.

Nanda, V. (2015) *Khabar yahan bhi* . New Delhi: Samayik Prakashan. ISBN: 978-81-7138-286-6.

Nag, A. (2015). Locating Rituparno Ghosh in Tollywood. In S. Dutta, K. Bakshi & R. K. Dasgupta (Eds.), *Rituparno Ghosh: Cinema, gender and art*. Routledge. ISBN: 978-1-138-95390-1.

Nath, D. (2015). Memory, imagination, history and identity: David Malouf's writing and the Post-colonial. In S. Sati (Ed.), *A warble of colonial voices: An anthology of short stories and poems, Vol. II*. Delhi: Worldview. ISBN: 978-93-82267-16-4.

Nath, D. (2016). Post-colonial literatures and questions of form. In S. Sati (Ed.), *Writing the Post-colonial: Poetics, politics and praxis*. Delhi: Worldview. ISBN: 978-93-82267-15-7.

Menon, K. (2016). On the question of free speech and censorship. In Ramdev, D. Nambiar & Bhattacharya (Eds.), *Sentiment, politics, censorship- The State of hurt*. (pp. 252-264). New Delhi: Sage. ISBN 978-93-515-0304-0.

Malhotra, M., & Menon, K. (2016). State intervention in women's rights. In B. Biswas & R. Kaul (Eds.), *Women and empowerment in contemporary India*. (pp 142-154). New Delhi: Worldview Publications. ISBN 9789382267256.

Mandal, M. "Narrating Queer Lives" (Unit 4) for the M.A Course in Women's and Gender Studies, IGNOU. Course Code: MWG-008. Course Title: Gender & Life Narratives. MPDD/IGNOU/P.O 5H/JUNE2014. ISBN: 978-81-266-6704-8.

Joshi, M. (2016). Rahula Sankrityayan and Buddhism: A complex engagement. In S. Chatterjee & S. Bhattacharya (Eds.), *On the trail of Buddhism in Asia: Reflections on tradition and practice* (pp. 76-87). Kolkata: Maulana Abul Kalam Azad Institute of Asian Studies/Pentagon Press. ISBN978-81-8274-830-9.

Kumari P. (2015). The Arctic Council and indigenous population. In V. Sakuja & G. S. Khurana (Eds.). *Arctic perspectives*. New Delhi: National Maritime Foundation. ISBN: 978-81-930159-2-6.

Kumari P. (2015). Arctic littorals augment military capabilities. In V. Sakuja & G. S. Khurana (Eds.). *Arctic perspectives*. New Delhi: National Maritime Foundation. ISBN: 978-81-930159-2-6.

Attri, P., Arora, B., Bhatia, R., Choi, E.H., & Venkatesu, P. Plasma technology: A new remediation for water purification with or without Nanoparticles. In Ajay Kumar Mishra (Ed). USA: Wiley-Scrivener Publishers. ISBN-10: 1118496302, 63-75.

#### **Conferences organized**

From Stumbling Steps to Confident Leaps: Harnessing the Power of Positive Psychology: National Seminar organized by the Department of Psychology, 19-20 February, 2016

Inter-disciplinary Symposium on South Asian Urbanisms organised by Sociology Department, 18-19 March, 2016

"Bodies of Conquest: Narratives of Territory in Mythology." organised by Department of English, March 2016.

Pedagogical Discourse in Teacher Education- Using Films as a Pedagogical Tool, organised by Department of Elementary Education in association with USIEF, 7<sup>th</sup> September, 2015

ECONVISTA : 2<sup>nd</sup> International Students' Symposium, organised by Department of Economics in association with Axis Bank, Education Tree, Coca Cola and Career Launcher from 28-30<sup>th</sup> January, 2016

"Understanding War in the 20<sup>th</sup> Century", organised by Department of Political Science, April 2016

MAAZI-O-MUSTAQBIL: The Future of Indian Pasts, organised by Department of History, 26-27 February 2016

#### **Conferences attended**

Dr. Suman Sharma, Principal of the College, presented a paper on 'Women, Justice and Human Rights – A Case Study of Widows in South Asia', at ISA Human Rights Joint Conference held in The Hague, The Netherlands , 8-10 June, 2015.

Dr. Jonaki Ghosh delivered an invited talk titled Technology in the Mathematics Classroom: A Perspective from India in the 20th Asian Technology Conference in Mathematics (ATCM) held at Leshan, China from 16th to 20th Dec 2015. The paper has been published in the conference proceedings.

Dr. Krishna Menon of the Department of Political Science presented a paper on ‘Schooling the Indian Woman’s Body-Questions of Gender and Globalization in Asia’ in a Conference on the Social Sciences, Sociology and Globalization in Asia at Hiroshima, Japan, 24-26 August, 2015.

**Faculty Strength** Permanent- 90, Temporary- 8, Ad-hoc- 31

**Financial Allocation and Utilization**

Grant sanction in Utilized in 6 lakhs

**Placements details**

Number of students getting successful placements: 125

Number of companies coming for campus recruitment: 64

Number of repeat recruiters: 26

**Number and names of Domestic/ International MoUs signed with partners**

**With indian/ foreign universities 11**

Brown University, USA

La Trobe University, Australia

NUS, Singapore

Middlebury College, USA

Fukuoka Women’s University, Japan

King’s College, London

Trinity College Dublin

SciencesPo, Paris

American Graduate School, Paris

UCD Michael Smurfit Graduate Business School, Ireland

**With Indian/ Foreign Companies 3 (KPMG, Mundo Latino and E&Y)**

**Extension and Outreach work**

- a) Number of camps organized in the surrounding areas: 20
- b) Number of people enrolled in the camps: 25 in each camp
- c) Number of students who worked in the camps: 400
- d) Total number of hours dedicated to these camps: 3 hours per student per week

**Student numbers under exchange programme**

- a) Undergraduate outbound exchange students: 10
- b) Undergraduate inbound exchange students: 41

**Journals subscribed**

- a) International journals: 29
- b) National journals: 73

## **LAKSHMIBAI COLLEGE**

**Major Activities and Achievements**

Lakshmibai College completed 50 years as an institution of learning in July 2015. The faculty members and students have brought national and international laurels to the college both in the field of academics and sports in the current

year. Many teachers completed PhD, presented papers at national and international level and published books and papers in journals. Several Faculty Development programmes on themes such as 'Quality Assurance in Higher Education' and 'Designing MOOCs with Moodle platform' were embarked upon. The college initiated a monthly meeting of the teaching staff to expedite the quality assurance process under NAAC through IQAC, and a Students' Council every month for a better exchange between teachers and students. The website was totally revamped and made interactive and user-friendly. A DU-funded Innovation Project on adolescent obesity was successfully completed and three new research projects commenced. A sizeable number of students got recruited through campus placement.

### **Outstanding Honours/Distinctions**

Dr. Pratyush Vatsala, Principal, was a Panelist on Doordarshan for discussion 'How to Prevent Crime Against Women'. 2015

Dr. Anita Malhotra, Associate Professor, was an invited speaker on 'Adolescent obesity- emerging trends in India' at Centre of Global Health, Trinity College, Dublin, Ireland, June 2015. She was nominated as member of Scientific Panel on Cereals, Pulses and Legumes and their Products (including Bakery) at Food Safety and Standards Authority of India, (FSSAI) 2015. Dr. Malhotra was elected as Honorary Secretary in the Executive Committee, Association of Food Scientists and Technologists (I), Delhi chapter August 2015. She was recognized as Supervisor to guide independently PhD students of Delhi University by BRS (Science), March 2016.

Dr. Seema Kaushik, Assistant Professor, secured one Gold medal in (1500m) and 2 Bronze Medals (4x100m, 4x400m) in the National Masters Athletics Championship held at Goa in April, 2015.

Mrs. Sarika Bhatnagar, Assistant Professor, won the best paper award for the research paper titled 'A Comparative Study of Foreign and Public Sector Banks in an Emerging Economy-A case study of India: For the period 2000-2014'. The paper was published in *Arthavaan*, 2015 1(1), 20-28.

Sanjana (student) represented India in 9<sup>th</sup> Asian Youth Netball Championship in Hong Kong. Akanshi, Sonali, Fatima, Divya Aggarwal, Arti, Rakhi (students) won Gold medal in Boxing/Yoga.

### **Research Projects**

University of Delhi funded Innovation Project (2013-15) 'Understanding the potential determinants of obesity among school going adolescents' (Rs 6,00,000). Project Investigators- Dr Anita Malhotra, Dr Gayatri, Ms Sonika and Dr Anu

University of Delhi funded Innovation Project (2015-16) 'Women Empowerment through Low Cost Technology' (Rs 5,00,000) Project Investigators- Dr. Amrita Shilpi, Ms Rajshri, Ms Gobina

ICSSR sponsored Research Project sanctioned to CARDI (2016-18) 'Social-Psychology of Marginalization and Exclusion: A Study of 'Dom' and 'Musahar' Communities in Bihar' (Rs 15,00,000). Co- Project Director- Dr Amrita Shilpi.

University Grants Commission funded Minor project (2015 onwards) 'Gender development in contemporary India: interpreting policies of the state'. (Rs 1,25,000) Principal investigator - Dr Madhu Jha.

### **Library Development**

Number of books – 87,368

Journals and magazines -55

## **Publications**

Vatsala, P. (2015). *Human rights education: issues and challenges*. New Delhi: Atlantic Publisher.

Nangia, R. (2015). Corporate governance practices in ITC Ltd. *International Research Journal of Commerce, Art and Science* (online), 6(6).

Kaul, R. (2015). Gender inequality: challenges of educating the girl child. *Social Change*, 45(2), 224-233.

Sharma, L. (2015). *E-commerce operational aspects, accounting, auditing and taxation issues*. New Delhi: New Century Publications.

Sharma, L., Harneja, A. and Kaushik, S. (2015) Analysis of growth strategies of adidas group. *Research Reinforcement Journal*, 2, 7-10.

Gayatri and Rekha (2015). Consumer's attitude towards mobile marketing -a contemporary communication tool. *Prabandhan Guru*, 5(1-2), 1-9.

Bhatnagar, S. (2015). A comparative study of profitability of foreign and public sector banks in an emerging economy-a case study of India for the period 2000-2014. *International Journal of Research in IT and Management* (online journal), 5(10).

Yadav, M.P. (2015). *International Journal of Research* 5 (2).

Khongreiwo, R. (2015). Nagas and pre-colonial Manipur kingdom: history of ignorance, raids and territorial fluidity. *International Journal of Indigenous and Marginalised Affairs*, 1(1), 62-79.

Chhabra, A. (2015). Estimating prevalence of sexual abuse by an acquaintance with optimal unrelated question RRT model, *North Carolina Journal of Mathematics and Statistics*, 2, 1-9.

## **Conferences attended and papers presented**

Malhotra, A. presented a research paper 'Nutrition education improves maternal nutrition, antenatal care and pregnancy outcome in a low income setting of outer Delhi' at International Conference on Maternal and Child Nutrition organized by South Asia Infant Feeding Research Network (SAIFRN) in collaboration with United Nations Children's Fund (UNICEF) at Colombo, Sri Lanka, November 23-24, 2015.

Chawla, I. presented a paper on 'Firm Productivity and Foreign Involvement: An Analysis for Manufacturing Firms in India,' at the X Annual Conference of Knowledge Forum on 'Technology, Growth and Sustainability,' organized by the Forum for Global Knowledge Sharing, hosted by the National Institute of Advance Studies (NIAS), Bangalore, November 27-28, 2015.

Porchelvi, A. presented a Paper Titled 'Environmental Accounting in India: Need and Development on Environmental Laws' at the 38<sup>th</sup> All India Accounting Conference and International Seminar on Accounting Education and Research-Organized by Punjab University Business School, Punjab University, Chandigarh on December 5-6, 2015.

Yadav, M.P. presented paper on Human Resources Development: Special Education for Differently Abled in the Multidisciplinary International Academic Research Conference at PSG. Institute of Technology Anna University Coimbatore TN. India, February 18, 2016.



Gauba, S. presented a paper titled 'A Study on Impact of Demographic Factors on Investment Preferences of Salaried Individuals across NCR.' in National Conference on 'Business Transformation in Contemporary World- Issues and Challenges' held at Bharati College, University of Delhi on October 31, 2015 and published the same in October, 2015 issue of journal 'Arthavaan'.

Ahuja, R. presented a paper titled 'Islamic Banking' in National conference entitled 'Emerging challenges and opportunities in business and economic environment' in Zakir Hussain College.

Uma. presented paper on 'The Indian Ocean Rim Association: A case Study of India – Kenya Trade Relation at National Conference on,' Africa Since 2000: Transition and Change', Organized by Department of African Studies, University of Delhi, Delhi on February 19- 20, 2016.

**Faculty Strength** Permanent 95 /Temporary-0/ Ad-hoc -72

### **Financial Allocation and Utilization**

Grant sanction in Rs :

UGC- Rs 25,59,90,760

State Govt- Rs 15,00,000 + 50,000 (for sports) +20,000 (for environment)

Utilized in Rs:

Rs 25,88,74,000 (tentative)

### **Placement details**

Number of students getting successful placements - 36

Number of Companies/Industries coming to the campus recruitment- 2

Number of repeat recruiters-1

### **Extension and Outreach work**

Number of camps organized in the surrounding areas – 1 NSS special camp was organized at Kair and Mitraon village, and Lakshmibai was adjudged best in its performance.

Number of people enrolled/covered in the camps -225 house visits

Number of students who worked in the camps- 50

Total number of hours dedicated to these camps- 160 hours

**Journals subscribed** 55 (journals and magazines)

**Any other significant information** With the objective of creating awareness, imparting skills and enhancing job opportunities among the students, the college is planning to start from the next academic year (2016-17) some add-on/ short-term/ certificate courses in collaboration with national and state level training partners.

## **MAHARAJA AGRASEN COLLEGE**

### **Major Activities and Achievements**

Sardar Patel Memorial Lecture: On 31<sup>st</sup> October, the day was commemorated as Unity Day in the College. Hon'ble Minister of Tourism, in government of NCT, Delhi, Mr. Kapil Misra was the chief guest.

Vivekananda Memorial Lecture: On 12<sup>th</sup> of January, to commemorate the birth anniversary of Swami Vivekananda, this lecture was delivered by Padma Vibhushan, Dr. Karan Singh. College organized Constitution Day on

November 26<sup>th</sup>, in order to mark the contributions of Dr. Bhim Rao Ambedkar, Chairman of the Drafting Committee of the Constitution. Copies of the Preamble of the Constitution were distributed among students and staff. A series of interdisciplinary workshops were organized under the aegis of IQAC, namely, “Quality Enhancement in Basic Computers” (Levels I, II & III); “Quality Parameters of Data Analysis and Interpretation using MS-Excel”; and “Be Cyber Secure”. Inaugural lecture of “Friday Faculty Research Seminar Series” was delivered by Dr. Sunil Sondhi, Principal of the College.

### **Research projects**

College manages different projects under Star Innovation Project scheme and Innovation Project Scheme, which are fully funded by the University of Delhi.

Ongoing projects: Culture and Communication in Global Organizations, Cyber Security Help System, Develop a Strategy for the In-house Performance Appraisal and Management of the Employees in the University of Delhi, Developing E-Learning Materials for information Management of Higher Education.

### **Library Development**

The library received the budget of 16 lakhs, and hence saw an addition 1301 books.

The academic year saw the digitalization of library with the implementation of OPAC, which makes the library more accessible to both students and faculty. The library also increased its seating capacity and is in process of introducing RFID (Radio Frequency Identification Device) for higher security and techno-friendly environment.

### **Publications**

Srivastava, Prem K. (2015) *Standing by the Wayside*. Poetry Space Ltd. Bristol, United Kingdom.

---. (2015): “Consider the Source, But How Much? Ruskin Bond and Vishal Bharadwaj’s *The Blue Umbrella*” in *Bollywoodising Literature, Forging Cinema* (ed. Simran Chadha), Research India Press, New Delhi.

----. (2015) “Knowledge Keepers: Canadian Cinema about the Indigenous” in *Gender and Diversity: India, Canada and Beyond* (eds. Malashri Lal et al) Rawat Publications, New Delhi.

Verma, Vinod. (2016) *Borders, Pilgrims, No Man’s Land and Poetic Pilgrimages*, Indian University, USA, Gateway of India, Delhi.

Kohli, Ritu. (2015) ‘Dr. Shymaprasad Mukeerji Aur Kashmir Samasya’ Prabhat Prakashan, Delhi.

---, (2015) ‘Farmers Movement’ in *Company to the Crown*, Srijan, Delhi

Rinten, Sudhir K. (2016) “Entertainment as News Media Content”, *TV News Channels in India*, Centre for Media Studies and Academia Foundation.

### **Conferences attended**

Abha Mittal, Department of Commerce “Good Corporate Governance: The Road to Financial Performance” in International Conference on Organization and Management, 22-23 Nov. 2015, organized by College of Business Administration, Abu Dhabi University.

“Mismanagement leads to Greek Crisis” in International Conference on Organization and Management, 22-23 Nov. 2015, organized by College of Business Administration, Abu Dhabi University.

Vinod Verma, Department of English: "Pilgrimage Upside-Down: Kabir as a Pilgrim of Ulat Bansi or Upside-Down Language, Mansfield College, Oxford, UK, from 3<sup>rd</sup> July to 5<sup>th</sup> July 2015.

----Recognising and Exploring Pedagogy of Silence and Silence of pedagogy through a Text-Book The Individual & Society, Mansfield College, Oxford, UK, between 7<sup>th</sup> and 8<sup>th</sup> July, 2015.

Sanjeev Tiwari, Department of Political Science "Dr. B.R. Ambedkar's Role in Constitution Making" in the International Seminar on, "All Inclusive Thought of Dr. B.R. Ambedkar" organized by Department of Political Science, Banaras Hindu University, Varanasi from 16<sup>th</sup>-17<sup>th</sup> April 2015.

Shilpa Gupta, Department of English "From Homelessness to Hybridity in Salman Rushdie's "The Imaginary Homelands" and "Step Across This Line" at International conference – Multiculturalism & Globalism: India and the World (25-27 Jan'16) organized by English Literary Society of O.P. Jindal Global University, Sonapat (NCR) & Indian Society for Commonwealth Studies

Poonam Singh, Department of Chemistry "Stabilization of oxyfluorides containing Co in IV by hyper halogens" International conference on Materials Science and Technology 1<sup>st</sup>-4<sup>th</sup> March 2016.

Debosmita Paul, Department of English "Multiculturalism and the Making of India: a Study of the Swadeshi Movement of 1905 through select Bangla writings", at International Conference on "Multiculturalism and Globalism: India and the World", O.P. Jindal Global University, 25-27 January 2016.

**Faculty Strength** Permanent: 64; Temporary: 01; Ad hoc: 52

#### **Financial Allocation and Utilization**

Grant sanction in Rs. 19,84,00,000/-

Utilized in Rs. 18,90,20,176/-

#### **Extension and outreach work**

NSS Pedal Power Club, launched in 2014 has also been working for a cleaner and pollution free environment. The Pedal Power started a cleanliness drive in the month of December, 2015 to support the Swachhta Abhiyaan App launched by Delhi Government and helped locating piles of garbage in the nearby areas of MAC.

National Student Academic Congress (NSAC-2016) was conducted on 11<sup>th</sup> and 12<sup>th</sup> March 2016.

#### **Students numbers under exchange programme**

Maharaja Agrasen College initiated a long-term educational and cultural exchange program with Tokyo University of Foreign Studies, Tokyo, Japan in the month of February 2016. Twenty one students accompanied by faculty members visited Maharaja Agrasen College on 22<sup>nd</sup> February and later visited Agra and Amritsar.

#### **Journals subscribed**

The library is subscribed to more than 43,000 e-journals through the central DULS system.

## MAHARSHI VALMIKI COLLEGE OF EDUCATION

### Major Activities and Achievements

The academic session started with a well-planned orientation programme addressing all aspects of the new two-year B.Ed. programme. Participation of students in college affairs was ensured through the election to Students' Panchayat which was duly installed by Dr. SP Pathak, Retired Faculty, Department of Education, University of Delhi, on 16 Dec 2015. Maharshi Valmiki Jayanti Address was delivered by Professor Satish Deshpande, Department of Sociology, Delhi School of Economics, on the theme 'Caste, 'the People' and Democracy.' The Foundation Day of the College was celebrated on 16 Nov 2015, Professor Krishna Kumar, Former Director NCERT and Professor of Education, University of Delhi gave the Foundation Day Address on the theme 'Parhhaana Bataana Sikhaana'. The College celebrated its Annual Sports Day on 29 Feb 2016. Annual Picnic was organised on 02 Mar 2016. Visit to National Museum, Gandhi Smriti and Darshan Samiti, National Bal Bhawan and Indian National Science Centre was organised for all the B.Ed. students as part of their Field Observation. Besides, visit to select historical places, krishi mela etc. was organised by some faculty members for their pedagogy course students. Field observation was successfully accomplished through the cooperation of the needed number of Govt. and Public schools. Students whole-heartedly participated in 'Run for Unity' on 31 Oct 2015 at India Gate flagged off by the Hon'ble Prime Minister and participated in the 'Swachhta Abhiyan' on the specified days. International Yoga Day was celebrated on 21 Jun 2015. 'Human Rights Day' and 'International Women Day' were also celebrated where students participated in the programme whole-heartedly.

### Library Development

An amount of Rs. 303365/- was spent on the development of library resulting in addition of 230 titles. The library subscribed to 18 Journals.

### Publications

Kumar, R. (2015). Accommodating Teachers' Encounters and Learners' Speculations Related to Alternative Frameworks in Science. *International Journal of Innovative Education* (ISSN 2393-8404), Volume 2(Issue 1).

Kumar, R. (2015). Comparative Analysis of CAL Material Developed by NCERT and PhET on the basis of Expectations of Pre-Service Teachers' in India. *International Journal of Innovative Education* (ISSN 2393-8404), Volume 2 (Issue 2).

Kumar, R. (2015). Learning from Pre-service Science Teachers' No-Computer or Imaginary Computer Reflective Exercise. *International Journal of Innovative Education* (ISSN 2393-8404), Volume 2(Issue 1).

Kumar, R. (2015). Nature of Researches Done in Computer-Assisted Learning: Identifying Focal Areas for Their Classification. *International Journal of Innovative Education* (ISSN 2393 8404), Volume 2(Issue 2).

Kumar, R. (2015). Understanding Educational Research Designs: A Descriptive Study. *International Journal of Innovative Education* (ISSN 2393 8404), Volume 2 (Issue 3).

### Conferences Organised/ Attended

Conferences Organised

Rakesh Kumar: Organised National Symposium on "New Education Policy - 2015: Stakeholder's Perspective". Organised by GRD College of Education, GGSIP University, Delhi in collaboration with Shiksha Sanskriti Utthan Nyas, New Delhi, 10 Dec 2015.

Rakesh Kumar: Resource Person in the research project to study the syllabi and textbooks in Science and Mathematics at the upper primary and secondary levels. Organised by Department of Education in Science and Mathematics, NCERT, 28 -29 Mar 2016.

Conference attended

P.K. Sharma: Speaker in the National Seminar on ‘Two-Year B.Ed. Programme: Issues and Challenges’, organized by the Gitarattan Institute of Advanced Studies and Training, (Guru Gobind Singh Indraprastha University), and held at Rohini, Delhi on 30 Mar 2016.

Pankaj Das: ‘Absenteeism in Indian Schooling: A Situational analysis of Schooling Behaviour of the Children of Govt. schools’ in National Seminar on Implementation of Educational Policies and Programmes in India: Stocktaking and Ways Ahead, 10 -11 Mar 2016, organised by M.P Institute of Social Science Research, Ujjain.

‘Silent Exclusion of Marginalised Children in Elementary Education: Case Study of Madhya Pradesh’ in National Seminar on Education of Socially Disadvantaged Groups in India, 04 - 06 Mar 2016, organised by Regional Institute of Education (RIE), Bhopal.

‘Reproductive Health Education and Adolescent girls: A situational Analysis in India” in National Symposium on Reproductive Health in India: Concerns and Awareness, 12 Feb 2016, organised by Deshbandhu College, University of Delhi.

‘Feminine Socialisation and Schooling: The Politics of Girls Dropping Out’ in VMMF Research Scholars’ Workshop on Engendering Social Change: Practices of Resistance, 30 – 31 Jan 2016, at IIC, organised by Centre for Women’s Development Studies, New Delhi

‘Inclusion of the Excluded: A Case study of the Children with Special Needs in Delhi Schools’ in National Seminar on ‘Access to Education for Students with a Disability: Issues and Challenges (AESDIC-2015)’, 3 Dec 2015 at BHU, organised by Department of Statistics, BHU, Varanasi.

**Faculty Strength** Permanent/ Temporary/ Ad hoc 14/5/3

**Financial Allocation & Utilization**

The following is the status of financial allocation and utilization in respect of the College for the financial year 2015-16.

In Rupees	Salary	General (Non Plan)	General (Plan)	Capital (Non Plan)
Grant Sanction	59466461	1601308	1020739	2178692
Utilization	40568149	1162714	979231	303433

**Extension & Outreach Activities**

Students did community service in nearby locality helping both the children enrolled and not-enrolled in schools in numerous ways.

**Journals Subscribed**

The library subscribed to 18 Indian Journals besides the e-journals available through DULS.

### **Other significant information**

Memorial Prizes: Two memorial prizes were introduced (i) Professor RP Sharma Memorial Prize for All Round Best Student of the B.Ed. Course, to be awarded every year from out of the fund of Rs 100000/- created by the family of late Professor RP Sharma, Founder Principal (OSD) of the College and (ii) Mrs. Mohinder Kaur Memorial Prize for Girl Student from Science Stream scoring highest marks in the College/University in B.Ed. Annual Examination of the University, to be awarded every year from out of a fund of Rs 50000/- created by Dr. Prabhjot Kulkarni, Former Principal of the College in the memory of her mother late Mrs. Mohinder Kaur.

NAAC Accreditation: The College has been accredited by National Assessment and Accreditation Council (NAAC) with a CGPA of 3.15 on a four point scale at 'A' Grade, valid for a period of five years from 17.03.2016.

## **MAITREYI COLLEGE**

### **Major Activities and Achievements**

The College continued its excellence in Academics. A total of 3098 students appeared in the Annual Examination and 1946 students obtained I Division, and the overall pass percentage was 96.7 %. A conference was organised with Honourable President of India in the month of August. "Parivartan" campaign was initiated in the month of August with activities leading to a cleaner campus. It was followed by Self Defence Workshop for 5 days in coordination with Delhi Police. Generation UK India Study Program was organized in collaboration with British Council, supported by UKIERI and delivered by Indogenious. This year Maitreyi College, Delhi University hosted nearly ninety students in two groups in July and September 2015 from various universities of UK belonging to various discipline. Various educational and cultural activities were organized under this programme. This provided a unique platform for our students to interact with UK students who were pleased with the hospitality extended to them by Maitreyi College. In June, 2015 a group of 2 students and 1 faculty from our college visited London for a week under the UKIERI SUP (UK India Education and Research Initiative- Study UK Programme). They visited various Universities including a whole day session at the Oxford. The Annual Cultural Festival RHAPSODY-2016 held on 28-29th January. It was inaugurated by Ms Nisha Singh, the Chief Guest and Mr. Mehraj Hassan, Guest of Honour. It was held on a gigantic level and witnessed over 10,000 students. The presence of AADHYA BAND on the first day and ROCKSTRINGS BAND and Celebrity Performance by SINGER GURU RANDHAWA on the second day captivated and enthralled the audience. The event was covered in HT CITY.

### **Library Development**

The College Library acquired 1611 books during 2014-15. It is subscribed to 53 journals including popular Magazines. A collection of 19 Newspapers are available in the Library. The total collection of the Library has been augmented to 94369 including CDs. It has been subscribed to more than six thousand E-Journals and more than one lac E-Books through N-LIST.

### **Publications**

Lumb, Shalini. And Vinod Prasad (2016) "Two photon processes in an atom confined in Gaussian Potential" Atoms 4, 6.

Lumb, Shalini, Sonia Lumb, Dipti Munjal and Vinod Prasad,(2015) "Intense field induced excitation and ionization of an atom confined in a dense quantum plasma" Phys. Scr. 90. , 095603

Lumb, Sonia, Shalini Lumb and Vinod Prasad (2015)"Static polarizability of an atom confined in Gaussian potential", Eur. Phys. J. Plus 130, 149

---, (2015) "Photoexcitation and ionization of a hydrogen atom confined by a combined effect of a spherical box and Debye plasma" Phys. Lett. A 379, 1263

Lumb, Sonia, Shalini Lumb and Vinod Nautiyal (2015) "Photoexcitation and ionization of hydrogen atom confined in Debye environment" Eur. Phys. J. D 69, 176

Kumari, Sushil. (2015) "Kathopnishad mein Daarshnik Nivechana" , ISSN 2394-7519 (International Journal of Sanskrit Research).

---, (2015) "Maharishi Valmiki ki Karun Rasabhivyakti" 14 Ananta ISSN 2394-7519 (International Journal of Sanskrit Research).

### **Conferences organized/attended**

Conference organized

National Conference on "Man Made Disease- An Urban Menace" was held from 11<sup>th</sup>-12<sup>th</sup> February 2016.

National Conference on "Nanoscience - Opportunities And Challenges". During the two-day conference held on 19<sup>th</sup> and 20<sup>th</sup> February 2016, eminent scientists from Institute of Nanoscience and Technology (Mohali), DRDO (Gwalior), TIFR (Mumbai), IIT (Delhi), NPL (Delhi) and Delhi University delivered lectures on this evolving field. More than 300 students and researchers, and about 90 teachers from 20 colleges participated in the conference. There were paper and poster presentations.

Conference attended

Ms. Anurita Jalan, Department of Sociology presented a paper in a conference in Tokyo University, Japan on the concept of "Singlehood".

Ms. Manju Bhardwaj, Department of Computer Science presented a research paper titled "Accurate Classification of Biological Data" in IEEE ICDM 2015 PhD Forum held in Atlantic City, New Jersey, USA from Nov 14-17, 2015.

Dr. Pardeep Rai, Librarian attended 61<sup>st</sup> ILA International Conference on "Sustaining the Excellence: Transforming Libraries through Technology, Innovation and value added Services in Google Era" held at Saurashtra University, Gujarat from 12-15 March 2016 and presented a paper as co-author entitled "Planning and Management of Library space for Changing Users' needs."

**Faculty Strength** Permanent = 111/ Temporary- Nil/ Adhoc - 72 (Till 31<sup>st</sup> March 2016)

### **Financial Allocation and Utilization**

Grant sanction in Rs - Rs. 38,70,79,760/-

Utilized in Rs. - Rs .35,39,46,108/-

### **Patents Filed/ Granted**

Number and title of national patents -

Dr. Hema Bhandari from Chemistry Department

Patent Filed No. : 3813/DEL/2013 (Smart Coatings of Conducting Polymer Composites for Corrosion Protection in Marine Environment). This innovation won the Gold Medal under DST-Lockheed Martin Innovation Growth Programme 2014.

### **Placement details**

Number of students getting successful placements - 38

Number of Companies/Industries coming for campus recruitment - 19

**Students numbers under exchange programme**

Undergraduate inbound/outbound exchange students

2 students from our College visited UK and our College hosted nearly ninety students in two groups in the month of July and September 2015 from various universities of UK belonging to various discipline under UKIERI.

Graduate/Postgraduate inbound/outbound exchange students

**Journals subscribed**

a) Number of International journals subscribed

online through N-LIST - All DULS e-resources and Journals are accessible at the College campus. Besides that Journals accessible through N-LIST.

paper back version - **04**

b) Number of National journals subscribed

online through N-LIST - All DULS e-resources & Journals are accessible at the College campus. Besides that Journals accessible through N-LIST.

The count to the accessibility to e-books through N-List reaches 1,45,000.

paper back version - **26**

The College also subscribed to 23 popular magazines in print format also.

**Other significant information**

Our College has been conferred continuance of Star Status to four Science Department by DBT, Government of India. The verdant campus of Maitreyi College, has been winning laurels for the College which participated in the University Annual flower show 2016 with great enthusiasm and fervor as always. The hardwork of the Maalis was appreciated with the college receiving many prizes. The most significant was The Deshbandhu Cup for “Best Lawns” in the University. Also the college won third prize in categories of “Rose Garden” and “Rock Garden”. Furthermore, it received appreciation in the “Garden” category. The college also won second prize in Delhi University in the category “Greenery and Cleanliness of a College” and third prize in the category of “Border of Mixed Flowers”. Sh. Jageshwar from the college received the “Best Maali” award for the year 2016.

**MATA SUNDRI COLLEGE FOR WOMEN****Major Activities and Achievements**

The National Assessment and Accreditation Council (NAAC) Peer Team visited College for authentication and validation of the Self Study Report (SSR) submitted to NAAC in May 2015. The visit lasted over a period of three days from March 28th to March 30th, 2016. An inspection committee appointed by the Board of Residence, Health and Discipline, Ordinance XV (Chapter 6) of the University visited the college on 6th April 2016. They checked the maintenance of health and hygiene in the canteen, toilets and college premises. They checked the security conditions in and around the college. They also checked the Security Protocol of the College. Rashtriya Ekta Utsav was observed on 29<sup>th</sup> October, 2015 to mark the birth anniversary of Sardar Vallabhbhai Patel. Vigilance Awareness Week was observed in College on 30th October 2015. Quiz competitions, sports competitions, workshops, debate competitions, lectures, seminars, film shows were also organised through the year.

**Outstanding Honours/ Distinctions**

Three of our college students Ms. Yashika Gulati, Ms. Divya Sharma & Ms. Shalini Tyagi participated in Asian Junior & Cadet Kurash Championship 2015-2016 held at Taoyuan city NTSU-China from 13<sup>th</sup> to 15<sup>th</sup> September



2015. They bagged one Silver and two Bronze medals respectively. Amrita Kaur from Punjabi (H) IIIrd Year bagged a Bronze medal in the Commonwealth Karate-do-Championship 2015-2016 held at Talkatora Stadium, New Delhi, India from 18<sup>th</sup> to 20<sup>th</sup> September 2015. At the Asian Junior & Cadet Karate Championship 2015-2016 held at Taoyuan city NTSU-China from 13<sup>th</sup> to 15<sup>th</sup> September 2015. Yahi Gilati won the silver medal. Divya and Shalini won bronze medals.

### **Library Development**

2022 (two thousand twenty two) books were added this academic year. The library also subscribes to 63 journals and magazines. In year 2015-16 a total of 13,225 books were weeded out from the library's records.

### **Publications**

Kumar Gupta, Lokesh. (2015) *Kasak Kareja Maanhi*. Shri Sahitya Prakashan: New Delhi.

Savita (2015). "Hindi Uppanyason Ke Samanti Jeevan Mein Kriyanki Stithi", *The Journal of Meerut University History Alumni* (Muha Magazine, a half yearly Research Journal of History).

Kunwar, Nidhi. (2016) 'Creating Dependent Readers & Writer: Our Complicated Simple Pedagogic Approach' *Language and Language Teaching* pp 21-25. Vol 5 No.1 Issue 9<sup>th</sup>.

Nerma, Rashmi, B.K. Dass and Namita Sharma (2015). 'The packing radius of a poset block code' in *Discrete Mathematics, Algorithms and Applications* (World Scientific), Vol. 7, No. 4.

Sharma, Rouble. (2015) *Dynamics of Cooperation between India and ASEAN since 2000*, Manak publication Pvt. Ltd.

Kaur, Jagjeet. *Punjabi Kahani : Samaj-Sabhyachark Sarokar*. National Book Shop , Delhi.

Pradhan, Divya. ( 2015). 'Filling in the Blank' in *Translation Today*, Centre for Indian Languages, Mysore Vol 9 number 1.

Sharma, Renu. (2016). 'Space management in Libraries: Learning and social spaces' *Libraries and Librarianship in 21<sup>st</sup> Century*. Ed. Pardeep Rai and Dharam Kumar, Book Age Publications.

Galhotra, M.K. (2016). "Information Literacy in the Academic Education". *Journal of Library and Information Technology* Vol. 12 No.1.

Kaur, Ravneet. (2015). "Portrayal of disability in textbooks: A psycho- educational perspective" *Journal of Indian Education*, Vol XXXXI (1).

### **Conferences Organized/ Attended**

Ms. Kiranpreet Kaur presented a paper in Sri Aurobindo College, University of Delhi in a UGC sponsored National Seminar on "Changing Business and Economic Environment in India vision 2020" on the topic 'Small and medium enterprises access to Finance and their implication in India growth: Vision 2020' on 26<sup>th</sup> – 27<sup>th</sup> February, 2016.

Renu Arora presented a research paper 'Evaluating Approaches in Credit Risk Assessment in Commercial Bank Loans' on 17<sup>th</sup> April, 2015, in a National conference on 'Financial Markets and Economics Developments' 477ompariso by University School of Management Studies, GGSIP University, Dwarka Campus, New Delhi

Dr. Lalita Meena presented a paper titled “Prabasi Bharatiyon Ki Samasya” at an international seminar organized by Aditi Mahavidyalaya, University of Delhi on 25<sup>th</sup> January 2016.

Dr. Jasmeet Kaur presented a paper titled “Technology Enhanced Learning. Is SNS a Suitable Tool” at an international conference on ‘Learning Technologies in Education’ held on 24<sup>th</sup> – 25<sup>th</sup> February, 2015 at Jamia Millia Islamia University.

Dr. Nidhi Kanwar presented a paper ‘Children’s Literature and Writing - Creating Opportunities with Response Journal’ in the MHRD sponsored seminar ‘Children’s Literature and Language Classrooms’ on 26<sup>th</sup> March, 2015 organised at Central Institute of Education, University of Delhi.

**Faculty Strength** Permanent/Temporary/ Ad-Hoc 92/0/64

#### **Financial Allocation and Utilization**

Grant sanction in Rs. – 23,83,40,000 (Twenty three crores eighty three lakhs forty thousand)

Utilized in Rs. – 27,16,92,228 (Twenty seven crores sixteen lakhs ninety two thousand two hundred and twenty eight )

#### **Placement Details**

Number of students getting successful placements: 289 ( two hundred and eighty nine)

Number of Companies/ Industries coming for campus recruitment: 7 (seven)

Number of repeat recruiters: Four (Concentrix, Genpact , ICICI Prudential Life Insurance Company and Tata Consultancy Services)

#### **Journals Subscribed**

Number of International journals subscribed: 5 ( five)

Number of national journals subscribed: 21 ( twenty one)

## **MAULANA AZAD INSTITUTE OF DENTAL SCIENCES**

#### **Major Activities and Achievements**

The Institute is catering to an average of 1317 Patients/day with 216 Implants placed per month and 2379 prosthesis per month. In continuation of the institute’s mission of providing quality services to citizens with consistent efforts, we have been again accredited by NABH for a span of three years till 2017. There are 6 mobile Dental clinics catering the North East and West Delhi Dispensaries and has catered 31569 patients this year and 16951 treated free of cost. 30 ASHA & ANM trainings have been carried out for oral health promotion. Clinton Global Initiative – Mercury Reduction Initiative by Maulana Azad Institute of Dental Sciences in New Delhi along with Dental Recycling International, Inc. (Dri) under the Clinton Global Initiative, Clinton Foundation, USA. The institute has been Ranked number one college in India by the Magazine Outlook-Drshti Dental Colleges Survey – 2015.

#### **Outstanding Honours/Destinations**

Dr. Mahesh Verma has been conferred “Life Time Achievement Award” by Indian Association of Positive Psychology and Manav Rachna International University during 1<sup>st</sup> International & 3<sup>rd</sup> National Conference Positive Psychology: The Ripple Effect on 27<sup>th</sup> February 2015.

Dr. Mahesh Verma has been conferred “Distinguished Teacher cum Administrator Award” by Delhi School of Professional Studies & Research, September 2015.

Dr. Mahesh Verma has been conferred “M.P.N. Sharma Life Time Achievemnt Award” by Institute for Environment, YOGA & Social Security, September 2015.

Dr. Gita Mehrotra was presented the State award for the year 2012-2013 for her meritorious services in the field of Health Care in Delhi on 20<sup>th</sup> October 2015. The award was presented by Sh. Manish Sisodiya, Honourable Deputy Chief Minister, Govt. of N.C.T. of Delhi at a function held at MAMC auditorium.

Sh. Shyam Sundar Chugh, Dental Hygienist, was presented the State award for the year 2012-2013 for his meritorious services in the field of Health Care in Delhi on 20<sup>th</sup> October 2015. The award was presented by Sh. Manish Sisodiya, Honourable Deputy Chief Minister, Govt. of N.C.T. of Delhi at a function held at MAMC auditorium.

Fellowship was awarded by Indian Board of Forensic Odontology and availed by Dr. J. Augustine in the month of September 2015.

### **Research Projects**

Funding agency- Council of Scientific & Industrial research (CSIR), Year/Period-2013 to 2017, Title-Designing & manufacture of indigenous dental implants under the New Millennium Indian technology leadership initiative (NMITLI), Amount Sanctioned – 310.8 Lakhs.

Funding agency – University Grants Commission (UGC), Year/Period-2015 to 2018, Title-Biochemical markers and their comparative evaluation with radiographic skeletal growth maturity indicators, Amount Sanctioned-14 Lakhs.

Funding agency –University Grants Commission (UGC), Year/Period-2015 to 2018, Title-Major research project titled “Role of molecular markers NF-KB, Role of NF-KB, cytokines Ii-Ia, II-8, TNF-x, COX-2 and p53 for assessing the malignant potential to oral cancer & their association to therapeutic response in patients with OLP (Oral Lichen Planus), Amount Sanctioned-13.45 Lakhs.

Funding agency- Department of Science and Technology (DST), Year/Period-2014 to 2017, Title- A Clinical study on retention of pit & fissure sealants placed with Acid etch and Laser etch, Amount Sanctioned-38.75 Lakhs.

Funding agency- Indian Council of Medical Research, Year/Period- 2012 to 2013, Title- Task force study for validation of “ICMR criteria for dental fluorosis”, Amount Sanctioned- 4.59 Lakhs

### **Students with distinctions**

Ms. Jasweeble Bassan (Dr. N C Sangal Memorial Gold Award 2015)

Ms. Nida Nayyer (Dr. P L Khurana Medal 2015)

Ms. Anshul Bharati (Dr. S P Aggarwal award 2015)

Ms. Smaridhi Maheshwari

Ms. Divya Nangia

### **Library Development**

The library is well equipped with 6 desktops. There are 6241 books presently in the library with 359 books and 486 volumes to procure for the year 2015-2016. There are 59 online books and 44 online journals. The library has 109 international and 24 Indian journals.

### **Publications**

International

Verma, M. (2015). Dental research: The missing block in the dental institutions. Journal of the International Clinical Dental Research, 7(1), 3-5. doi:10.4103/2231-0754.153474

Kaur H, Nanda A, Koli D, Verma M, Singh H, Bishnoi I, Pathak P, Gupta A. (2015). An Alternate Vista in Rehabilitation of Cranial Defects: Combining Digital and Manual Techniques to Fabricate a Hybrid Cranioplast. *Journal of Craniofacial Surgery*, 26(4), 1313-1315. doi: 10.1097/SCS.0000000000001633

Dharmani, U., Rajput, A., Kamal, C., Talwar, S. and Verma, M. (2015). Successful auto transplantation of a mature mesiodens to replace a traumatized maxillary central incisor: case report. *International Endodontic Journal*, 48(6), 619-626.

Yadav, P., Pruthi, P.J., Naval, R.R., Talwar, S. and Verma, M. (2015). Novel use of platelet rich fibrin matrix and MTA as an apical barrier in the management of a failed revascularization case. *Dental Traumatology*, 31(4), 328-331.

Tripathi, T., Neha, Gill S. and Rai, P. (2015). Multidisciplinary rehabilitation in a case of congenital aglossia with situs inversus totalis. *International Journal of Orthodontics Milwaukee*, 26(2), 39-43.

Chawla, H., Urs, A.-B., Augustine, J., and Kumar, P. (2015). Characterization of muscle alteration in oral submucous fibrosis-seeking new evidence. *Medicina Oral, Patologia Oral Y Cirugia Bucal*, 20(6), e670-e677. <http://doi.org/10.4317/medoral.20656>.

Utneja, S., Nawal, R.R., Talwar, S., and Verma, M. (2015). Current perspectives of bio-ceramic technology in endodontics: calcium enriched mixture cement – review of its composition, properties and applications. *Restorative Dentistry & Endodontics*, 40(1), 1-13. <http://doi.org/10.5395/rde.2015.40.1.1>

Goel, S., Khurana, N., Marwah, A., & Gupta, S. (2015). Expression of cdk4 and p16 in Oral Lichen Planus. *Journal of Oral & Maxillofacial Research*, 6(2), e4. <http://doi.org/10.5037/jomr.2015.6204>

Gupta, S.R., Saran, R.K., Sharma, P., & Urs, A.B. (2015). A Rare case of Extraskeletal Mesenchymal Chondrosarcoma with Dedifferentiation Arising from the Buccal Space in a Young Male. *Journal of Maxillofacial & Oral Surgery*, 14(Suppl 1), 293-299. <http://doi.org/10.1007/s12663-013-0500-0>

Singh, A., Goswami, M., Pradhan, G., Han, M.-S., Choi, J.-Y., & Kapoor, S. (2015). Cleidocranial Dysplasia with Normal Clavicles: A Report of a Novel Genotype and a Review of Seven Previous Cases. *Molecular Syndromology*, 6(2), 83-86. <http://doi.org/10.1159/000375354>

### **Conferences organized/attended**

#### International

93<sup>rd</sup> IADR general session Boston, Massachusetts, USA, Dates – 11<sup>th</sup> – 14<sup>th</sup> March 2015, Funding agency support – UGC.

International Conference on Oral and Maxillofacial Surgery 2015, Melbourne, 27<sup>th</sup> – 30<sup>th</sup> October 2015, Funding agency support – UGC.

8<sup>th</sup> International Orthodontic Congress, London, 27<sup>th</sup> – 30<sup>th</sup> September 2015, Funding agency support – UGC.

#### Indian

Child Abuse & Neglect – A Medico Legal and Forensic Perspective, 17<sup>th</sup> April 2015, Funding agency support – Self funded.

Quality in Dental Education – NCHPE-2015, 19<sup>th</sup> Nov. 2015, Funding agency support – Department of Medical Education, MAMC, New Delhi.

### **Faculty Strength Permanent/Temporary/Ad-hoc 43/10/21**

#### **Financial allocation and Utilization**

Grant sanction in Rs. – 32.0 Crores

Utilized in Rs. – 28.62 Crores

#### **Patents Filed/Granted**

Number and title of national patents –

Development of Dental implants Phase I

A pit and fissure sealant composition

Number and title of international patents –

Development of Dental implants Phase II

Number and title of collaborative patents-Industry

#### **Placement details**

Number of students getting successful placement:

83% of undergraduate students have got post graduate seats

98% placement for post graduates passing out from institute.

Number of companies /Industries coming for campus recruitment: 1 (Clove Dental)

Number of repeat recruiters: 1

#### **Number and name of Domestic/International (MoUs) signed with partners**

With Indian/Foreign Universities: 5 Foreign universities

University of British Columbia, Canada

New Jersey Dental School, University of Medicine & Dentistry of New Jersey, USA

Tufts University School of Dental Medicine, USA

Royal College of Physicians and Surgeons, Glasgow

With Indian/Foreign Companies/Industry:

International

Dental Recycling International, Inc. (Dri)

#### **Extension and Outreach Work**

Number of camps organized in the surrounding areas: 161

Number of people enrolled/covered in the camps: 7086

Number of students who worked in the camps: 78

Total number of hours dedicated to these camps: 815 hours

#### **Students numbers under exchange programmes**

Undergraduate inbound/outbound Exchange Students: 3

Graduate/Postgraduate inbound/outbound Exchange Students: 2

#### **Journals subscribed**

a) Number of international journals subscribed (online + paper back version): 109

b) Number of National journals subscribed (online + paper back version): 24

### **Other significant information**

The Phase II building of MAIDS has been started with new research facilities and competitive quality equipments. New facilities of Tissue bank and TMJ clinic, which are both one of its kind in India has been instituted. The introduction of new comic characters “BABLOO & RANI” and series for IEC for school children by Department of Public Health Dentistry was done for the benefit of school children. ASHAKIRAN HOME for mentally disabled is one of the largest in Asia and interdisciplinary efforts are going on to improve the oral health of inmates by providing preventive and curative services. Training of care takers and nurses has been initiated as part of oral health promotion. The institute played a major role in oral health and oral cancer screening in NCD, screening & awareness camps at Pragaiti Madan from 14<sup>th</sup>-27<sup>th</sup> November 2015 at 35<sup>th</sup> India International Trade fair. First ever dental check up and treatment camp was organized by MAIDS in the Supreme Court, Delhi with the gracious presence of Honorable Chief Justice of India, Mr. S.K. Dattu on Saturdays on 10<sup>th</sup>, 17<sup>th</sup> and 31<sup>st</sup> January, 2015. A total of 402 employees of Supreme Court were screened and 11% of them were treated for some or the other ailments

## **MIRANDA HOUSE**

### **Major Activities and Achievements**

MH was awarded 11 DU Innovation Projects and 3 DU Star Innovation Projects in 2015. Dr. Monika Tomar, Department of Physics, was the only college teacher to receive the Teaching Excellence Award 2016. A 10-week add-on course titled *Rethinking the Obvious: Examining the Rhetoric of Development* was floated in collaboration with George Washington University, USA. An automatic weather station was installed in the college under the METKIDS programme. MH students undertook a project titled *Neighbourhood Mapping and Assessment of Disaster Risk in and around University of Delhi, North Campus*. MH organized a three-day *Gender Mela*, attended by representatives of several NGOs and advocacy groups. Municipal Officers attending workshops under the *Swachh Bharat Abhiyan* at the National Institute of Urban Affairs regularly visit the MH Recycling Plants. The fifth INSPIRE Internship Programme held in July 2015 attracted 278 students from 35 schools.

### **Outstanding Honours/ Distinctions**

Dr. Pratibha Jolly: nominated as Member, Scientific Advisory Committee to the Cabinet (SAC-C) constituted by the Government of India in an order dated 26 July 2012. She continues as member, appointed Chairperson, Delhi Chapter, Institute of Physics, UK and nominated on the Research Advisory Committee (RAC) of Shri Ram Institute of Industrial Research

Dr. Monika Tomar received the Excellence Awards for Teachers in Colleges on 1 May 2016, the University Foundation Day. It is extremely significant that she was the only teacher from Delhi University to be selected for the award.

Dr. Sharmila Purkaystha received Fulbright Nehru Postdoctoral fellowships, 2016-2017

Dr. Devjani Ray received Charles Wallace Award in November 2015 for a three week visit to U.K.

Dr. Rama Yadav was selected on deputation as the Visiting Professor to ICCR's Chair of Hindi at ELTE University, Budapest, Hungary, for a period of two academic years

Ms. Suvasini received the Chancellor's International Research Scholarship from University of Sussex to do Ph.D in Education.

Two DU Innovation Projects, Climate Change, Water Security and Livelihood Resilience: Role of Traditional Knowledge and Modern Technologies in Rajasthan, India (MH 301) and Design of Affordable Water Purification devices using Green and Ecofriendly Bioactive Agents (MH 306) were awarded Certificate of Appreciation and selected as poster presentation on 1 May 2016. These were amongst the top 20 selected from 400 DU Innovation projects

### **Research Projects**

**Department of Biotechnology (DBT) Star College Scheme** sanctioned Rs. 55 Lakh to Departments of Botany, Zoology, Chemistry, Physics and Computer Science. The Project was further extended by two years. An amount of Rs. 10 lakh was released by DBT in the year 2014-2015 and an amount of Rs. 19 Lakh has been received from DBT in the year 2015-2016.

### **University of Delhi Innovation Star Projects**

Three projects with total grant of Rs. 1.3 Crore were awarded from November 2015 for three years

Eureka MyLab! Developing Resources and Hands-on Science Activities and an Adaptation Accessible for Visually Impaired-MH01(Rs37.50 lakh)

Therapeutic Potential of Medicinal Plants: Culture, Extraction, Physicochemical Characterization and Testing their Cytotoxic or Immunostimulatory Properties-MH02 (Rs26.67lakh)

3R: Reduce, Reuse, Recycle – MH03 (Rs40.88lakh)

Core Development of College Infrastructure under Star Innovative Project Scheme (Rs26lakh)

### **University of Delhi Innovation Projects**

Eleven Projects with total grant of Rs 53.5 lakh from August 2015-August 2016

Climate Change, Water Security and Livelihood Resilience: Role of Traditional Knowledge and Modern Technologies in Rajasthan, India – MH301 (Rs 4.5 lakh)

Children's Picture Books in India: Rethinking History, Story telling and Pedagogy – MH302 (Rs 3.5 lakh)

Continuity and Change in the Youth's perception of National Interest in India's Foreign Policy: A comparative study of Delhi University students with Jadavpur and Madras University students. – MH303 (Rs 3.5 lakh) Business Ethics: Business Leadership in Bhagavad Gita – MH304 (Rs 3.5 lakh)

Mobile! My Lab: Any time, Any where – MH305 (Rs 6.5 lakh)

Design of Affordable Water Purification devices using Green and Ecofriendly Bioactive Agents – MH306 (Rs 6 lakh)

Synthesis of Heena (*Lawsoniainermis*) based Scaffolds and Comparison of their Colour and Antimicrobial Activity– MH307(Rs 6 lakh)

Reward Network as a new form of experiential marketing – MH308 (Rs 3.5 lakh)

Antimicrobial Finishing of Textiles using Eco-Friendly Bioactive Agents – MH309 (Rs. 6.5 lakh)

Sugarcane to Nanoparticles: Green Nanotechnology the future – MH310(Rs 5 lakh)

Phytoremediation of Heavy Metal Contamination & Extraction of Nanoparticles – MH311(Rs 5 lakh)

Dr. Monika Tomar Rs 424.38 lakh for *Development of thin film Surface Acoustic Wave device as a platform for the sensing applications* (Nov. 2014 to Nov. 2019), Rs. 450 Lakh for *Demonstration of LED by PLD* from Ministry of Information Technology & Communication (Dec. 2013 to June 2015), Rs. 95.40 Lakh for *Development of metal oxide thin film based low cost sensors for CNG & PNG* from GAIL (Oct. 2013 to Oct. 2015), Rs. 86 lakh, for a DST sponsored project *Validation and improvement of indigenously developed table-top Surface Plasmon system (SPR) system*(Feb. 2015 to Jan. 2016), Rs.32 lakh for *Development of Platinum based MicroHeaters/Micro Evaporation Sources for Space Applications* (Nov.2014 to Oct.2015),

Dr. Sadhna Sharma Rs. 66.48 Lakhs for *Molecular Cloning and Immunological Validation of Three Hypothetical Proteins of M. Tuberculosis with Strong T-cell Epitopes* from Department of Biotechnology (2013-2016).

## Library Development

The total sanctioned budget was Rs. 16,55,700 . The number of books added in 2015-2016 was 1655 and 8 journals. This year the library was renovated with unobstructed long corridors; expansive reading halls with flux of natural light and air ventilation; new flooring with kota stone; polished book shelves; well lit stack areas; new chairs; a splash of greenery; and museum artefacts on display. The faculty reading room has also been redesigned. This has led to increase in the occupancy of the library.

## Publications

Bhatia, S.S., Bahri, S., Moitra, S. & Sharma, S. (2015) An Interdisciplinary Pedagogical Approach to Develop a Module for Phyto regulatory Profile of Nanoparticles. *International Journal for Scientific Research & Development*, pp. 70-71, IJSRD/Conf/NCIL/2015/017, ISSN(online) 2321-0613

Shakya, R. (2016.) Synthetic Biology: role of open source approaches. *International Journal of Sciences and Applied Research*. 3(3): 26-31.

Sharma, M., Pathak, M., Roy, B, Chand, A., Dhanda, G., Abbasi, N. & Panchal, G. (2016. ) Green synthesis of gold nanoparticles and their comparison. *Journal of Material Nanoscience* 3(1): 8-10.

Virmani, G. & Srivastava, M. (2015.) On Levitin-Polyak well-posedness of Perturbed Variational-Hemivariational Inequality. *Optimization* 64(5): 1153-1172

Sharma, S., Paliwal, A., Tomar, M., Singh, F., Puri, N.K. & Gupta, V. (2016.) Effect of Ion Beam Irradiation on Dielectric Properties of BaTiO<sub>3</sub> thin film using Surface Plasmon Resonance. *Journal of Material Science* 51: 4055-60.

Sharma, S., Tomar, M., Puri, N.K. & Gupta, V. (2015.) Enhanced Ferroelectric Photovoltaic Response of BiFeO<sub>3</sub>/BaTiO<sub>3</sub> Multilayered Structure. *Journal of Applied Physics* 118: 074103.

Roy, P. (2015.) Impact of comparison on trade union movement. *Indian Journal of Public Administration* Vol. LXI (No 3): 480-488. ISSN 0091-5561.

Nanda, B., Nanda, A.R. & Sharma, O.P. (2015.) Women's health and rights in India: issues and concerns. *Indian Journal of Public Administration* Vol. LXI (4.): 697-713. ISSN 0019-5561.

Jha, R. & Jha, R. (2015.) Role of foreign direct investment in India's industrial development in Economics. *Indian Industrialisation, Vol. I (ed C.P. Chandrasekhar), ICSSR Research Surveys and Explorations, Oxford University Press, Delhi, ISBN 0-19-945893-6, pp. 126-163.*

Sarkar, A. (2016.) Watershed Development and Water Marketing. Land, Water, and Agriculture (ed H.S. Sharma & M.H. Qureshi), Oxford University Press, New Delhi, pp.128-170.

Chakravarti, U. (2015.) A gendered perspective of disability studies; Disability, Gender, and the Trajectories of Power (ed. A. Hans), Sage, India, ISBN: 9789351501237.

## Conferences organized

Indo-Dutch Collaborative Programme on Management and Cultural Contexts, coordinators Dr Monika Vij and Dr Bilasini Devi in International Collaboration with Utrecht Business School, The Netherlands (25 – 29 January 2016)



Zenith Model United Nations Conference 2015, organized by the Economics Society (14 and 15 March 2015).

#### **Conferences attended by faculty**

Dr. Sadhna Sharma delivered a lecture *In silico Identification of Promiscuous CT Lepitopes of MymA operon Proteins of Mycobacterium tuberculosis for a Epitope based vaccine design* at Drug Discovery and Therapy World Congress 2015, Boston, USA, 22-25 July 2015.

Dr. Monika Sharma presented a paper *Defining T cell epitopes from DosR regulon proteins of M. tuberculosis as potential vaccine candidates* at 18<sup>th</sup> Annual Conference on Vaccine Research, Bethesda, MD, USA, 13-15 April 2015

Dr. Sadhna Sharma presented a paper on *Latency associated antigens Rv2032 and Rv2626c emerge as good vaccine candidates against Mycobacterium tuberculosis* at 26<sup>th</sup> ECCMID Congress, the European Congress of Clinical Microbiology and Infectious Diseases, Amsterdam, Netherlands, April 9 – 12, 2016.

Dr. Pratibha Sharma delivered a Lecture on *Business ethics*, at Intensive International Programme at H U Business School, Utrecht, The Netherlands, 03 July 2015.

Dr. Bijayalaxmi Nanda presented a paper *Critical assessment of Asian population policies from a demographic and gender perspective* at 5<sup>th</sup> Asia & Pacific Studies Congress 2015, Paris, 09-11 September 2015.

Dr. Bijayalaxmi Nanda presented a paper *Sex selective abortion and state in India: dilemmas of gender justice* at Conference on Global Gender Justice: New Directions, University of Birmingham, UK, 21-22 May 2015.

Dr. Rama Yadav presented a paper *Meerabai: Life Story through the poetry* in the Department of South Asian, Tibetan and Buddhist Studies, University of Vienna on 9 May 2015

Dr. Monika Tomar gave an Invited Talk on *Electrochemical biosensors for 485omparison485s and cáncer detection*, 2<sup>nd</sup> Conference on Microscopy in Materials Science (AMST-2016), Thapar University, Patiala, 25 February 2016.

**Faculty Strength** Permanent: 144, Temporary: 02, Ad Hoc: 55

#### **Financial Allocation and Utilization**

**Grant sanction in 2015-2016** Rs 42,26,40,760, **Utilization** Rs. 38,95,80,619

**Patents Files/Granted** Dr. Monika Tomar has applied for two patents

#### **Placement Details**

Number of students getting successful placements~90 (90% of students who apply get placement)

Number of companies/industries coming for campus recruitment) 20 companies recruited from our college

Number of repeat recruiters 18

#### **Number and Name of Domestic /International (MoU) signed with partners**

With Indian/Foreign Universities

Science Setu Programme: MOU with the National Institute of Immunology (NII)

Indo Dutch Program: MOU with Utrecht Business School, the Netherlands

MOU with Lynchburg College, USA; bilateral exchange of faculty and students

### **Extension and Outreach work**

Number of camps organized in the surrounding areas : 2 (Health and education)

Number of people enrolled/covered in the camps: 300

Number of students who worked in the camp: 30

Total number of hours dedicated to these camps: 144 hours

### **Student numbers under exchange programme**

SP Jain School of Global Management: Initiative at Miranda House ( 2 students in December 2015)

King's London Summer School in the session from 28 July to 16 August 2014 ( Four students received full scholarships)

Utrecht Business School on *Strategic Management and Culture* from 29 June to 3 July 2015 (2 faculty and 12 students )

Lynchburg College (one student has been selected for Master's in Science Education. She will receive generous financial support)

Wisconsin University ( 2 faculty and 2 students in August 2015)

Chicago University (1 student has been offered generous financial assistance to pursue Master of Liberal Arts)

University of Sussex ( one student to the Sussex University International Summer School has been selected to attend a four week summer school module on Health in a Global Perspective in July-August 2016)

### **Journals subscribed**

Number of international journals subscribed (online + paperback version): Miranda House is a member of DULib and DELNET

Number of national journals subscribed: 119 and Miranda House is a member of DULib and DELNET

### **Other significant information**

Students have been selected for internships in the best institutes. As many as 20 science students did summer internship at Vikram Sarabhai Space Centre, ISRO, Chennai Mathematical Institute, NIUS, Tata Institute of Fundamental Research, Physics Research Laboratory, Indian Institute of Science, Inter-University Accelerator Centre, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR). More than fifty students worked as summer interns in the DS Kothari Centre for Research and Innovation in Science Education at Miranda House.

Illustrative examples of international engagement of students in academic year 2015-2016 is given below:

Unnati Akhauri, B. Sc. (H) Physics II for internship at S. N. Bose Scholars Program at Princeton University, New Jersey, USA in Experimental Particle Physics Division, 2 June-13 August 2016.

A. Phroyia Pfuze, B. Sc (H) Chemistry II offered admission in III Year at Tokyo University, on the basis of credit retention for two years in September 2015.

Jyoti Aggarwal, B. Sc (H) Chemistry III has been given generous financial assistance for Masters in Science Education Program at Lynchburg College, USA in Fall Semester 2016.

Pragya Chawla, B.Sc (H) Physics III with full scholarship for M.Sc. Physics from McGill University, Canada and Oort Fellowship for pursuing masters in research in astronomy at Leiden University, Netherlands.

## **MOTILAL NEHRU COLLEGE**

### **Main Activities and Achievements**

Eight new eco-green, semi-permanent, classrooms (P.G. Block) and three new classrooms (near Generator Block) have been added to academic infrastructure of the college. New H.T. Connection of 11,000 volts installed in the College on 11<sup>th</sup> April 2016 and inaugurated by Deputy Chief Minister of Delhi, Sh. Manish Sisodia on College

Annual Day Function. College campus is fully Wi-Fi enabled. Our faculty have published article in journal/magazines of international repute. Further, the college has ensured the PwD enabled infrastructure.

### **Outstanding Honours/Distinctions**

Dr. Vandana Mishra, Assistant Professor, Department of Political Science has been selected as Associate Fellow Developing Countries Research Centre, University of Delhi.

Dr. Kaushal Panwar, Department of Sanskrit, Moderated the session chair in 2015 International Academic Conference at Harvard University, organized by West East Institute, June 8th 2015, Boston M.A., U.S.A.

### **Research Projects**

Dr. Krishna Kumar and Dr. A.M. Khan, Department of Chemistry and Dr. Y. Kumar Prem Singh, Department of Physics Awarded innovation Project MNC- 303 Synthesis of Nanoparticle and their application in photovoltaic cell  
Mr. Munish Tamang and Ms. Kuntal Tamang, Department of English and Ms. Shipra Gupta, Department of Mathematics. Awarded innovation Project MNC- 302 Socio-Economic Survey of Students Migrating to Delhi for Undergraduate Studies in Delhi University

Dr. Seema Vats, Department of Physics and Dr. Swati Agarwal, Department of Chemistry awarded innovation Project MNC- 301 titled “Generation of Electricity Eco-Economical Non-Conventional Techniques”.

### **Library Development**

Our library is fully PwD enabled wherein JAWS software has been installed of Visually Challenged students. Further, we fully committed to provide most updated library facility to our students and teachers.

**Total Budget** Rs. 13, 87, 500/-

**Books Added** Rs. 2157

**Journals Subscribed** 49 and 6000 + e-journals through UGC-Infonet, University of Delhi.

### **Publications**

Kumar, Krishna.(2016) NPYFa a chimeric peptide of Met-enkephalin and NPPF, induces tolerance free analgesia. *Chem Biol Drug Des.*

Bhan, Suraj. (2016). *Contestations and Accommodations: Mewat and Meos in Mughal India*, Oxford University Press, Delhi.

Bhan, Suraj. (2015). ‘Mithak Aur Yatharth Ka Dwand: Jaat Khaap Panchayatn Ke Vishesh Sandarbh Mein Ek Aitihashik Vishleshan’ Nehru Memorial Museum and Library, New Delhi

Khole Timothy Poumai, S. K. Kaushik,(2015) “Retro Banach frames, almost exact retro Banach frames in Banach spaces”, *Bull. Math. Anal. Appl.* 7 (2015), no.1, 38-48. (MR 3340290) MathSciNet

Khole Timothy Poumai, S. K. Kaushik,(2016)“Frames and Non Linear Approximations in Hilbert Spaces”, *Journal of Contemporary Mathematical Analysis*, Springer 2016, vol. 51(1), page 1-9 ISSN: 1068-3623, Journal no.11957.

Agarwal, Ajay Kumar . (2015). “An Inventory Model with Variable Demand Rate for Deteriorating Items under Permissible Delay in Payments ” *International Journal of Computer Applications Technology and Research* Volume 4 – Issue 12, 947 – 951.

Mishra, Vandana. (2016). Political Ideas of bipin Chandra Pal, Samvad Media Publications, New Delhi.

Mishra, Vandana. (2016). Political Responcee to indian Economic Reforms, Samvad Media Publications, New Delhi.

Mishra, Vandana. (2016). Coalition Politics: A Comparative Study of Italy, Japan and India.

Kaushalya. (2016) “Shudr Stri: Partantrta Evam Pratirodh” , Shilpayan Prakshan, New Delhi

Kaushalya. (2016) “Questation of Human Rights: Indian Society” Edited by Dr. Kaushal Panwar, Saannidhya Books, ISBN: 978-81-932311- 2-7 New Delhi.

### **Conferences Attended**

Dr. Seema Srivastava presented a paper titled “Corporate Financial Reporting Practices” in National Conference conducted by Vivekananda Institute of Professional Studies on 27<sup>th</sup> and 28<sup>th</sup> November, 2015

Dr. Krishan Kumar, delivered talk in UGC sponsored 3 Days National Seminar on 19-21 Nov 2015 tilted “Prospects of Pharmacy Education in India” at Pt. Ravishankar Shukla University Raipur, Chhattisgarh, India from 19-21 Nov 2015

Dr. Suraj Bhan presented a paper titled ‘Myth and Reality of Khap Panchayat: A Case Study of Jats’ on 4 March 2016 at a two-day UGC-SAP national seminar on ‘Representations of Gender, Caste and Religion in Indian Writings’ at the Department of English and Cultural Studies, Panjab University from 3-4 March, 2016

Dr. Kaushalya, presented a paper titled “Language and Enequality: Dalit language and Literature In International conference organized by WEI 2015 Harvard Conference International Academic Conference Boston, USA. 8-10 June 2015

Dr. Kaushalya, presented a paper titled “Vedic Living in Modern World”-Contradictions of Contemporary Indian Society in 5th International Conference on Humanities, Society and Culture (ICHSC 2015) organized by International Journal of Cultural and History(IJCH) Toronto, Canada from 7-8<sup>th</sup> September 2015

Dr. Kaushalya, presented a paper titled “Vedentic Basis of Social and Economic Equality” in 22nd International Congress of Vedanta, organized by Special Centre For Sanskrit Studies JNU from 27-30 December 2015

### **Faculty Strength Permanent/Temporary/Adhoc 91/01/61**

#### **Financial Allocation and Utilization**

Grant Sanctioned: Rs. 31, 29, 35, 000/-

Utilization: Rs. 27, 92, 66, 000/-

#### **Placement Details**

Number of Students getting successful placement: 45

Number of companies/Industries coming for campus Placement: 35

Number of Repeat Recruiters: 10

#### **Journals Subscribed**

**Number of International journals subscribed (Online+ Paper Back Version)-**

6000 + e-journals subscribed through UGC-Infonet + 4

**Number of national journals subscribed (Online+ Paper Back Version)-**

6000 + e-journals subscribed through UGC-Infonet + 48

**DELNET facility is also provided for Students and Faculty.**

**MOTILAL NEHRU COLLEGE (EVENING)**

**Major Activities and Achievements**

2015 marks the beginning of the Golden Jubilee of Motilal Nehru College (Evening). The college is organizing a series of academic and extra curricular activities throughout the year to mark the occasion. Motilal Nehru College (Evening) established in July, 1965, by a distinguished Educationist Dr. R.K. Bhan as a Founder Principal, is a constituent college of the University of Delhi, situated on a prominent location at Benito Juarez Road adjacent to the University of Delhi South Campus, New Delhi. Apart from imparting education in various popular courses of study under 3 year degree programme like B.A. (H) English, B.A. (H) Hindi, B. A. (H) History, B.A. (H) Political Science, B.Com (H), B.Com. and B.A. Programme, the college also emphasizes on character-building of the students and includes high moral values to shape them as rational, responsible and self-reliant human beings. Despite constraints of Evening College it also provides facilities for games like Football, Hockey and Volleyball etc. in a well maintained Playground.

**Outstanding Honours / Distinctions**

Dr. Ashwani Kumar, Department of Hindi, Dr. Rajesh Kumar, Department of English and Dr. Prahlad Kumar Bairwa, Department of Political Science has been selected for UGC Reputed Fellowship-Research Award of Teachers from 2016 to 2018.

Dr. Jaya Priyadarshini : Awarded Ph.D Degree in 2015, Thesis Titled ‘Redefining Social Worlds: The ‘Menials’ and Service Jatis in 18<sup>th</sup> Century Marwar’).

**Library Development**

Total Budget: Rs.3,50,283/- (Recurring Grant) & Rs.3,54,297/- (UGC 12 Plan)

Books Added: 1732

**Publications**

Kumar, Bipul (2015) “Hindi Bhasha aur uski Lipi ka Itihas” Shree Natraj Prakashan

(2015)Ed.“Hindi Kavya Sanklan” Shree Natraj Prakashan.

Prakhar(2015) “Caste System in Hisar District of Haryana” UMR Journal, Vol-1 issue August, 2015, p 21-26.

“Chunav:Chunoutian Aur Samadhan” published in The Opinion Vol.4 No.8, July-December, 2015 p 149-154 ISSN-2277-9124.

Bhalla, Priya. (2015) “Do Mergers & Acquisitions Enhance Technical Efficiency? An Empirical Assessment”. *Journal of Business and Policy Research*, Vol.10, No.1, July 2015.

---, “Ex-ante Characteristics of Acquirers and Targets in Indian Financial Sector: An Empirical Analysis”. *International Journal of Financial Services Management*, 2015, Vol. 8, No.2, pp 110-132.

Dahiya, Jyoti Jakhar (2015) (Co-author). 'Untold and Foretold: Sociological and Historiographical insights into Marquez's Chronicle of a Death Foretold' in *Post Colonial Literatures: Voices From the 'Other'* ed. Madhumita Chakraborty, New Delhi : Book Age Series.

Tripathy, Radha Nath. (2015). "Tokenism to Pro-activism: Decentralization of Disaster Management and Panchayati Raj in India" in *Dynamics of the State and Society in India*, Eds. Dr. Ajay Parmar and Amitabh Bhatt, Delhi, Prashan Publishing House, pp 389-412.

### **Conferences organized/attended**

#### Conferences organized

English Department organized the UGC sponsored National Seminar on 15<sup>th</sup> March, 2016 on the topic 'Pedagogy and Methodology for teaching English Language skill to undergraduates in college of India under the CBCS Systems'.

Economics Department organized the UGC sponsored National Conference on 18-19<sup>th</sup> March, 2016 on the topic 'Goods and Services Tax: Impact on Indian Economy'.

Hindi Department organized the UGC sponsored National Seminar on 28-29<sup>th</sup> March, 2016 on the topic 'Dalit Sahahitya: Ambedkarwadi Chintan aur Bhartiya Samaj'

#### Conferences Attended

Pradip Sharan : Presented a Research Paper entitled, 'Politics is the cause of the disastrous fall in the quality of teacher and the teaching of English in India: Setting standards', organized by ELTAI and RKG Institute of Technology for Women, Ghaziabad on 9-11 July, 2015.

Presented a Research Paper entitled, 'The Theme of Identity in the poems of Margaret Atwood, Derek Walcott and Kamla Das : A post-colonial perspective, at the International Conference on 'Multiculturalism and Globalism, organized by ISCS and O.P. Jindal Global University, Sonipat and chaired a session on 25-27 January, 2016.

Hema Dahiya : presented a paper titled "Power of Language in Antony and Cleopatra" at International Conference on "Language in Shakespeare: Rhetorical, Aesthetic, Communicative" organized by MD University, Rohtak on 8-10 October, 2015.

---, Presented a paper titled "Reappropriations of Shakespeare in Colonial Bengal" at International Conference on "Shakespeare in Indian and European Languages: A Postmodern Review" organized by Jai Narain Vyas University, Jodhpur on 16-18 November, 2015.

Jyoti Jakhar Dahiya : Presented a Research Paper titled 'Inflecting Popular Culture: A Case Study of the reception of Tangled in India' at UGC Sponsored National Conference organized by Zakir Husain College (Evening), Delhi held on 3-4 March, 2016.

Priya Bhalla : Presented a paper on "Performance of Financial Services Sector Entities : Pre and Post Merger and Acquisition" at International Conference on Booming Service Sector: From Achievements to Growth Prospects, Organized by Guru Gobind Singh College of Commerce, Delhi held on 4-5 February, 2016 and was awarded the best paper of the session.

Anjali Agarwal : Presented a Research Paper entitled “Productivity in Organized Manufacturing Industry” at a National Seminar organized by Zakir Husain College (Evening) held on 29-30 March, 2016.

Radhanath Tripathy : Presented a paper on “Making Welfare a Right : Application of Right-Based Approach to the Social Welfare Administration”, at the National Seminar on Social Welfare Administration in India : Linking with Digital India, organized by Indian Institute of Public Administration, sponsored by Ministry of Social Justice and Environment, Govt. of India, New Delhi on November 26-27, 2015.

--- “Gandhi’s Ideas of Human Rights” ICHR sponsored National Seminar on “Gandhi and His Methodology: Its Significance in 21<sup>st</sup> Century”, organized by M.M.H College, Ghaziabad (UP) held on 11-12 March, 2016.

Prakhar : Presented a paper “Contribution of Sanskrit Literature in the study of History” at the National Seminar on Aadhunik Sandharbh Main Sanskrit Bhasha Ki Upyogita held at Haryana Sanskrit Vidyapeeth, Baghola, Palwal (Haryana) on 26-03-2016.

#### **Faculty Strength Permanent / Temporary / Ad-hoc75**

#### **Financial Allocation and Utilization**

Grant sanction in Rs.13,99,95,760/-

Utilized in Rs.13,58,50,067/-

### **NEHRU HOMOEOPATHIC MEDICAL COLLEGE & HOSPITAL**

#### **Major Activities and Achievements**

Installation of Display board and signage and in process of Installation of CCTV Cameras.

#### **Conference organized/attended**

Dr. K.G. Saxena Memorial Seminar on Life Style Diseases by Indian Institute of Homeopathic Physicians (II HP) held on 2<sup>nd</sup> August, 2015.

National Seminar on Homoeopathy w.e.f. 08.01.2016.

International Convention on Homoeopathy on the occasion of World Homoeopathic Day celebration w.e.f. 9<sup>th</sup> and 10<sup>th</sup> April, 2016 at Vigyan Bhawan by Liga Medicorum Homoeopathica Internationals.

**Faculty Strength permanent/ Temporary/ Ad-hoc. 25/10/0**

### **NETAJI SUBHAS INSTITUTE OF TECHNOLOGY**

#### **Major Activities and Achievements**

More than 2,700 UG and 70 PG and 100 Ph.D. students are enrolled in the Institute. Over 900 Research Papers published in International Journals and several hundreds in National and International conferences by its faculty members. Placement record of the institute is one of the best among the Engineering Colleges in the country; students find place in leading Industries and Universities within the country and abroad. Students have been consistently winning awards in various National and International Competitions. UG students accepted as summer interns in leading Universities abroad. Several NSIT students have scored 100 percentile in CAT/GRE. NOT ONLY Ph.D. scholars and M.Tech. students but even B.E. students succeed in getting their research papers published in reputed International Journals every year. The Indian Today Survey has ranked NSIT 17<sup>th</sup> in year 2013 among the top 100 T-School of India. NSIT has been recognized as QIP Centre by AICTE (Govt. of India) for research programs to Ph.D. degree in five of its academics divisions.

### **Outstanding Honours/Distinctions**

Dr. Sanjeev Kumar, got distinction in Doctoral Research Award-2016 from IIT Delhi and Early Career Research Award -2016 from SERB, DST.

### **Library Development**

Budget utilities in 2015-16 : Rs. 1,093,4,479/-

No. of print books in 2015-16 : 4,284

No. of online books : Mc. Graw Hills books (Total no. of books -380)

Periodicals:

Online package of full text journals -5

IEL

ACM Digital Library

ASME

Emerald (95 Journals)

Computer Science & Engineering (Total nos. of Journal-275)

Online Journals

Wiley Online Journal (11 title)

Taylor & Fancies ( 4 title)

ACS Journals ( 4 title)

SIAGM Online Journals (2 title)

SAGE Journals ( 1 title)

Online Bibliographic database -1 one (Scopus)

Print Journals (6 title)

Total no. of Newspaper- 20

Total no. of News Magazine -67

Total no. of user Added 2015-16 in the Central Library

Total no. of B.E. Students users in Library - 915

Total no. of M.Tech. Students users in Library – 49

Total no. of TRF/RF users in Library - 31

### **Publications**

Choudhary P, Prajapati S.K. Malik A (2016). screening native microalgal consortium for biomass production and nutrient removal from rural sector wastewaters. *Ecol Eng* .91:221-230 (Elsevier,IF:3.041).

Tiwari, M. and Dubey, A.K. (2016) Cypermethrin bioremediation in presence of heavy metals by a novel heavy metal tolerant strain, *Bacillus* sp. AKDAI. *Int. Biodeterioration and biodegradation*, doi:10.1016/j.ibiod.2015.11.025.

J.K.Pathak, A.K.Singh and R.Senani. (2015) ‘New Canonical lossy inductor using a single CDBA and its applications’, *International Journal of Electronics (UK)*, 2015,DOI:10.1080/00207217.1020884.

Manish Kumar, S. Shankar, G. D. Dwivedi, A. Anshul, O. P. Thakur, and Anup K. Ghosh,(2015) “Magneto-dielectric coupling and transport properties of the ferromagnetic-BaTiO<sub>3</sub> composites”, *Applied Physics Letters (AIP Publishing)* 106(7), 072903 doi:10.1063/1.490955.



Manish Kumar, S. Shankar, Shiv Kumar O. P. Thakur, and Anup K. Ghosh. (2016). "Structural, magnetic, dielectric and magneto-dielectric coupling analysis of ferromagnetic-PbZr<sub>0.52</sub>Ti<sub>0.48</sub>O<sub>3</sub> nanocomposites", *J Mater Sci: Mater Electron* (2016), DOI 10.1007/s10854-016-4637-8 (Springer).

Nandini Sharma, Ranjana Jha. (2015). "Influence of DL-Alanine Fuel Concentration on Structural and Magnetic properties of Nickel Ferrite nanoparticles", *International Journal of Innovative Research in Science, Engineering and Technology*, Vol. 4, Issue 5, PP-3508-3515, ISSN(Online)

Manish Kumar, S. Shankar, G. D. Dwivedi, A. Anshul, O. P. Thakur, and Anup K. Ghosh, (2015). "Magneto-dielectric coupling and transport properties of the ferromagnetic-BaTiO<sub>3</sub> composites", *Applied Physics Letters* (AIP Publishing) 106(7), 072903 doi: 10.1063/1.4909553.

Manish Kumar, S. Shankar, Shiv Kumar O. P. Thakur, and Anup K. Ghosh,(2016). "Structural, magnetic, dielectric and magneto-dielectric coupling analysis of ferromagnetic-PbZr<sub>0.52</sub>Ti<sub>0.48</sub>O<sub>3</sub> nanocomposites", *J Mater Sci: Mater Electron* (2016), DOI 10.1007/s10854-016-4637-8 (Springer)

Nandini Sharma, Ranjana Jha. (2015). "Influence of DL-Alanine Fuel Concentration on Structural and Magnetic properties of Nickel Ferrite nanoparticles", *International Journal of Innovative Research in Science, Engineering and Technology*, Vol. 4, Issue 5, PP-3508-3515.

Om Prakash Thakur and Nidhi Agrawal.(2015). "Modelling of Sensing Performance of Electrostrictive Capacitive Sensors", Book title- *Sensing Technology : Current Status & Future Trends III*, Volume 11, pp 341-358.

Vinod Kumar, Anu Rana and O P Thakur. (2015) Electrical Properties of Mn<sub>0.5</sub>Zn<sub>0.5</sub>Fe<sub>1.8</sub>Re<sub>0.2</sub>O<sub>4</sub> (Re = Fe, Gd, La, Sm) nano Structured Ferrites", *Nano Technology Novel Perspectives and Prospects*", International Publishers McGraw- Hill, USA, pp-494-498.

### **Conferences organised/attended**

#### Conference Organized

Organized Summer/ Winter Internship Programme on Microcontroller based Embedded System Design under TI centre for Embedded Product Design, NSIT Delhi.

#### Conferences Attended

Nandini Sharma, Ranjana Jha, Efficient Cathode layers in solar cell: A review, Solar-Icon 2016, 13<sup>th</sup> Solar International Congress, 28-30 January 2016, Habitat Centre, New Delhi, India.

Nandini Sharma, Ranjana Jha, Effect of solvent on Structural properties of zinc oxide nanoparticles, Solar-Icon 2016, 13<sup>th</sup> Solar International Congress, 28-30 January 2016, Habitat Centre, New Delhi, India.

Nandini Sharma, Ranjana Jha and Sarita Baghel, Review of recent progress in Organic Solar Cells, National Conference on Advancements in Electronics & Computer Applications, 4-5<sup>th</sup> February,2016, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, India.

Manish Kumar, S Shankar, O P Thakur, Anup K Ghosh, Dhruv, "Structural and Electrical properties of co-substituted Nano cobalt ferrites", 3<sup>rd</sup> National Conference on nanoscience instrumentation and technology (NCNIT), 6-7 June 2015. (Oral Presentation).

S. Shankar, Manish Kumar, Prachi Choudhary, O.P. Thakur, Anup. K. Ghosh, “BFO-BT solid solutions: An emerging magnetoelectric material”, 3<sup>rd</sup> conference on recent advances in chemical sensors, 25-26 August 2015 (Poster presentation).

Nandini Sharma, Darshan Sharma and Ranjana Jha, Structural properties of Zinc Oxide nanoparticles synthesized by co precipitation method for Solar Energy Conversion, 6<sup>th</sup> World Renewable Energy Technology Congress, International Conference & Expo., To be presented on 21-23 August, 2015 at Delhi, India.

Nandini Sharma, Ranjana Jha, Study of Catalytic effect of Advanced Counter Electrode materials for Solar Energy Conversion, Solar Asia-2015, Savitribai Phule Pune University, To be presented on 30 July- 1 August, 2015 at Pune, India.

Nandini Sharma, Ranjana Jha, Diagnostic and characterization methods for Solar cell, National Conference on Functional Materials, August 2015 at Sharda University, Greater Noida.

**Faculty Strength** Permanent- 100; Ad-hoc- 01

#### **Financial allocation and Utilization**

Grant sanction in Rs. : 33,000 lakhs

Utilized in Rs. : 3291.86 lakhs

#### **Placement details**

Number of students getting successful placements – 640

Number of Companies/Industries coming for campus recruitment -172

Number of repeat recruiters -115

#### **Number and name of Domestic/International (MOU s) signed with partners**

With Indian/Foreign Companies/Industry:

Indian Company : ST Microelectronics

Foreign Company :Texas Instruments (TI Centre for Embedded Product Design)

#### **Journals subscribed**

Total Number of journals : 275

### **P.G.D.A.V. COLLEGE**

#### **Major Activities and Achievements**

Rain Water Harvesting, New Canteen, Student’s Amenities Block & Computer Lab. constructed and operationalized. CCTV Cameras installed in the entire College.

#### **Outstanding Honours / Distinctions**

Sh. Lalit Mohan of B.A. (P) Ist year won 3 gold medals in Taekwondo Championships at interstate and national level. He has been selected for the Indian camp.

#### **Research Projects**

Dr. Pinki Punia is associated with innovation project “Widows’ Life Struggle”, With special Reference to Virndavan (2013-15); Funded by Delhi University (Rs. 3 Lakhs)

Dr. Manoj Kumar Sinha, Dr. Abhay Prasad Singh, Dr. Rajni Jagota, Sh. Chhetan Choidub and ten other students are associated with innovation project “Jan Dhan Yojna and Financial Inclusion (2015-16); funded by Delhi University (Rs. 4.5 lakhs)

Dr. Giridhar Gopal Sharma of Sanskrit Department has taken up a research project on “Rishi Teerthas and Parvas” referred to in 18 puranas U.G.C. has given him a grant of Rs. 205000 for the same.

### **Library Development**

This year library purchased 2384 books, spending a total of Rs. 11,85,153, taking the total books stock around one lakh. Besides this, 27 books were gifted to our library. Currently the college boasts of 4317 bound journals, subscribes to 63 periodicals and 19 newspapers. We have a dedicated cell with five workstations for differently abled students. These are installed with assistive software with access to Braille Library, University of Delhi. Various assistive devices like Abacus, Geometry Kit, MP3 recorders, Angel Daisy Reader, Text to speech software, Zoom Ex Instant Text Reader, laptops etc. provided to differently abled students to support their studies. The Library has a book bank section, SAF Unit to aid economically weaker students. At present Book Bank has 12,069 books. This year college library procured 484 books incurring an expenditure of Rs. 1,30,998 for book bank section.

### **Publications**

S.S. Awasthy, (ed.) (2016) “पूजी 21 – वी सदी में” Hindi Translation of Thomas Picketty’s “Capital in the 21<sup>st</sup> Century” by B.S. Bagla, Unicorn Books, New Delhi.

\_\_\_\_\_ दिल्ली का राजनीतिक इतिहास, Abhishek Publication, New Delhi

Singh A. B. (2016) Development Process & Social Movements in Contemporary India, Pinnacle Learning Publication, New Delhi

Sharma R & Popli R S , Financial Accounting, 6<sup>th</sup> Edition, Kitab Mahal, New Delhi

Dr. Ashwani Mahajan :

72<sup>nd</sup> Editions of Datt and Sundharam’s “ Indian Economy”, Sultan Chand, New Delhi

55<sup>th</sup> Edition of Bhartiya Artha Vyavastha, Sultan Chand, New Delhi

### **Conferences organized / attended**

Payal Malik (Dept. of Economics) presented the papers ‘Economics of Competition Law’ and ‘New Challenges for Competition Regulation,’ at the conference on Competition issues in Platform Markets, in CPR South, 2015, Taipei Taiwan.

Sanghita Mondal presented a paper “Firm Capabilities and Productivity Spillovers from FDI: Evidence from Indian Manufacturing Firms” at the 13th Globelics international conference held in Havana, Cuba.

Sanghita Mondal presented a paper “Export Spillovers from Foreign Direct Investment in India: A firm level analysis” at the 3rd Indialics International Conference held in CDS, Trivandrum, Kerala.

Urvashi Sabu presented a paper ‘Pakistani women poets and their negotiations with religion’ at the international conference on Post-colonialism jointly organised by International Society for Commonwealth Studies (ISCS) and Osmania University Centre for International Programmes (OUCIP) Osmania University. Hyderabad.

Geeta Kalucha presented the paper “Improved Ratio and Regression Estimators of the Mean of a Sensitive Variable in Stratified Sampling” at the 69th Annual Conference of Indian Society of Agricultural Statisticians “Statistics and Informatics in Agricultural Research” at University of Kota, Rajasthan.

**Faculty Strength** Permanent (118), Temporary (03) & Ad-hoc (38)

**Financial Allocation and Utilization**

Grant sanctioned: **Rs. 29,13,61,760/-**

Utilized: **Rs. 27,30,20,519/-**

**Placement details**

Number of students getting successful placements : 340

Number of Companies / Industries coming for campus recruitment:15

Number of repeat recruiters: 08

Extension and Outreach work

Number of campus organised in the surrounding areas : (05)

Number of people enrolled/covered in the camps

Number of student who worked in the camps: (82)

Total number of hours dedicated to these camps : (25 hrs)

**Journals subscribed**

(a) Number of international journals subscribed : All the e-journals subscribed by Delhi University on DU LAN

(b) Number of National journals subscribed: 63 paperback periodicals

**P.G.D.A.V. COLLEGE (EVENING)**  
**(Pannalal Girdharilal Dayanand Anglo Vedic College)**

**Outstanding Honours/Distinctions**

Dr. Sanjay Kumar and Dr. Motiur Rehman Khan, Dept. of History, participated as Resource Person in two 11 day workshops on Scientific and Technical Vocabulary in December 2015 and February 2016.

Dr. S.R. Raj, Dept. of Political Science, participated as a delegate in the International Conference organized by Inter-State Council, Ministry of Home Affairs, Govt. of India and Forum of Federations, Canada, Vigyan Bhawan, January 2016, on ‘Co-operative Federalism: National Perspective and International Experience’.

Dr. Meena Sharma was awarded the D. Lit Degree by Agra University for the research titled ‘Bhrtiya Navjagran Aur Stree Chetna’.

**Research Projects**

Dr. Asha Rani, Dept. of Hindi, Sh. Ramesh Kumar, Dept. of Commerce and Ms. Meenakshi Yadav, Dept. of Commerce are working on the Innovation Project of University of Delhi titled ‘Perception of Students and Faculty Members on Employability Skills: A Study on Selected Colleges in Delhi and Chandigarh’.

Sh. Hari Pratap, Dept. of Mathematics, Sh. Anil Kumar, Dept. of Hindi and Kewal Singh, Dept. of Commerce are also involved with the Innovation Project of University of Delhi.

### **Library Development**

- a) Total budget: 3,79,462
- b) Number of books added: 1,128
- c) Journals subscribed to: 63

### **Publications**

Sethi, P K. Comparison of Effect of Yoga Nidra: Autogenic Training on Basket Ball Players. n *Asian Journal of Multidisciplinary Studies*, Vol. 3, Issue 10.

Kumar, Anirudha.(ed.) Asha Rani, A.K. Singh. 'Hindi Shodh: Swaroop Aur Sambhawana'.

Meena,O L. 'Badalte Hue Bharat Main Hindi Sahitya K Samne Uthate Hue Naye Prashna, Shankayein Aur Samadhan'. *Antarashtriya Saidhantik Sameeksha*, Vol. 3.

Tiwari, Awadesh Kumar. Trend in Global FDI: India Versus China.*International Journal of Management Sociology and Humanities*, Vol. 6.

Vip, Shruti. (2015). Mothers Perceptions and Impact on Education: A Study of Rural China in Inclusive. *Kolkata Centre for Contemporary Studies*, vol.7.

### **Conferences organized/attended**

Conference organised

Dr. S.C. Sharma, Dept. of Hindi, in collaboration with University Grants Commission, organized a 2 day International Seminar on 'Swanratyotra Hindi Kahani: Rachnatmak Sarokaron Ki Nayi Partal', in March 2016. Under the same aegis a 2 day National Seminar was organized on 'Badalta Bhartiya Paridrishya Aur Swanratyotra Hindi Natak', in February 2016.

Conference Attended

Krishna Shukla, 'Ambedkar and Class:Answer Through Time' keynote address at the National Seminar organized by Satyawati College (Evening) in February 2016.( by invitation)

'Vartaman Vaishvik Paripekshya Main Radha-Krishna K Prem Ki Prasangikta' keynote address in an International Seminar jointly organized by Vrindavan Research Centre and Vrindavan and Vyanjana Art-Culture Society, Allahabad.(by invitation)

Dr. Jyotsna Prabhakar, 'Womanhood Empowerment And The Idea of Social Justice: A Study in Comparison', keynote address in the National Seminar on 'Empowering Women Through Prism of Social Justice' organized by Women Studies Centre, Jai Narayan Vyas University, Jodhpur, July 2015. (by invitation)

**Faculty Strength** Permanent/Temporary/Ad-hoc 42/0/43

### **Financial Allocation and utilization**

Grant sanction (in Rs.):

Maintenance: 12,31,10,760.00

OBC: 1,69,60,000.00

Utilized (in Rs.):

Maintenance: 12,74,31,712.00

OBC: 1,62,04,874.00

**Placement details**

Number of students getting successful placement: 20

Number of Companies/Industries coming for campus recruitment: 5

**Extension and Outreach work**

Number of camps organized in the surrounding areas:5

Number of people enrolled/covered in the camps: 100 (approximately)

Number of students who worked in the camps: 60 (approximately)

Total number of hours dedicated to these camps: 4 – 5 hours per day (approximately)

**Journals subscribed**

Number of National journals subscribed (online + paper back version): 63

## **PT. DEENDAYAL UPADHYAYA INSTITUTE FOR THE PHYSICALLY HANDICAPPED**

**Major Activities and Achievements**

This Institute runs Bachelor of Physiotherapy (BPT), Bachelor of Occupational Therapy (BOT) and Bachelor of Prosthetics & Orthotics (BPO) courses under the financial control of Ministry of Social Justice and Empowerment. PDDUIPH actively participated and assisted Ministry of Social Justice and Empowerment for successful conduction of National Award Ceremony to the differently abled on 3<sup>rd</sup> December 2015.

**Research Projects****Department of Physiotherapy**

To evaluate the efficacy of manual therapy for the management of vertigo – Mrs. Manda Chauhan & Mr. Anoop Aggarwa

A cross sectional study to determine the prevalence of unrecognized Benign Paroxysmal Positional Vertigo (BPPV) in middle aged and elderly people – Mrs. Manda Chauhan & Mrs. Rajni Kalra

Association of Anthropometric Characteristics to Foot Type and Static Postural Balance strategy in Young Adults – Mrs. Manju Vats & Mrs. Prachi Raj Meena

**Department of Occupational Therapy**

Effect of NFDR on Bilateral Integration and Practice Abilities in Children with Sensorimotor Processing Problems by Dr. Meenakshi Batra, Dr. Vijay Batra, Anoop Kumar Agarwal

Effect of Various Treatment Modalities in Lower Extremity Angular Problems in Children with Rickets Dr. Meenakshi Batra, Dr. Vijay Batra

Interlimb Coupling in post-stroke rehabilitation. (December 2015 onwards) Funded by Indian Council of Medical Research, New Delhi.

Role of long-term task based mirror therapy in inducing motor recovery in post stroke hemiparesis. (December 2015 onwards) Funded by Indian Council of Medical Research, New Delhi.

Effect of Activity-Based Mirror Therapy on Lower Limb Motor Recovery in Stroke (Nov. 2014 to March 2016), Funded by – PDDUIPH.

Synergy based therapy program for Stroke Patients. Funded by Indian Council of Medical Research, New Delhi (July onwards)

**Library Development**

Total Budget (2015-16) = Rs 16,000,00/-

Total No. of Books = 12980

Expenditure on Professional/Non Professional Books = Rs. 11,31,000/- (Approx)

Expenditure of Journals = Rs. 5,02,000/- (Approx)

Library Users = 29406

We are in the process of creating Digital Archives of our CD/DVD resources which would be accessible to students and faculty of PDUIPH in the Institute premises.

### **Publications**

Yadav, Rashmi. Shefali Walia, Manju Wats, Majumi Noohi. (2016). Comparison of effectiveness of specific balance strategy training programme with general balance training programme on balance performance in chronic stroke. *JPMR SCI*.

Gunjan Wadhwa and Ruby Aikat.(2015). Development, validity and reliability of the ‘Sitting Balance Measure’ (SBM) in spinal cord injury. *Spinal Cord*, 54: 319-323; doi: 10.1038/sc.2015.148

KN, Arya. Pandian S. Kumar D, Puri V.J. (2015). Task –Based Mirror Therapy Augmenting Motor Recovery in Poststroke Hemiparesis: A Randomized Controlled Trial. *Stroke Cerebrovasc Dis* 2015 June 18 Pii: S1052-3057(15)00138-X doi:10:1016/j.jstrokecerebrovasdis.2015.03.026

Pandian, Shanta. Kamal Narayan Arya & Dharmendra Kumar. (2015). Effect of motor training involving the less-affected side (MTLA) in poststroke subjects: A Pilot Randomized Controlled Trial. *Topics in stroke rehabilitation*, 22(5):357-6

KN, Arya.(2015) Underlying Neural-mechanism of Mirror Therapy: Implication for Motor Rehabilitation in Stroke.*Neural India*.

Arya KN Garg RK.(2015). Stepping to recognize the damaged brain : Does the journey lead to a destination?. *Neural India*,63(3):307-9.Doi:10.4103/0028-3886.158162.

Batra ,Vijay. Meenakshi Batra , Ravindra Mohan Pandey, Vijay Prakash Sharma , Girdhar Gopal Aarwal. (2015) Modulating Tone to Promote Motor Development Using Neuro Facilitation of Development Reaction (NFDR) Approach in Children with Neurological Developmental Delay. *MALAYS J MED SCI*, 22(5): 50-56.

G, Pandian. Introspective Study of Lower Limb Amputees and Prosthetics Fitment Process. *indexed journal of Orthotics & Prosthetics Association of India (OPAI)*.

### **Conferences Organized and attended**

Conferences organized

National Conference of Orthotics organized by Dept of Prosthetics & Orthotics in association with Prosthetics Association of India (OPAI) from 12.02.2016 to 14.02.2016 at Talkatora Stadium, New Delhi.

Conferences Attended

Meenakshi Batra: Attentional Sensorimotor Task Training For Improving Motor Behaviour In Cerebral Palsy (As Author) and Modulating Gait Parameters & Using Multi-joint Coupling Strategies in patients with early knee Osteoarthritis (as Co-Author) at Annual National Conference of AIOTA at SRM Chennai 29- 31 Jan 2016.

Gender Based Variations in Plantar Weight Distribution Patter Across Normal Population as well as Knee Osteoarthritic Population in India (as Co-Author) and Multipurpose Sensorimotor Head Gear. (as Author)

Developing neurorehab skills comparison of various treatment techniques in children with s.c.i. at International Head Injury Conference, at India Habitat Centre Nov 2015 Delhi.

#### **Department of Prosthetics & Orthotics**

Pandian, Asst. Prof. (P & O) International Society of Prosthetics & Orthotics Conference held at Lyon, France from 22<sup>nd</sup> June to 25<sup>th</sup> June 2016.

Orthotics & Prosthetics Associations of India (OPAI) is a National accredited forum for the advancement of Prosthetics & Orthotics profession and professionals actively involved in the Rehabilitation of disabled. The aim of OPAI is to enable the disabled persons to be more independent and integrated in the society through intervention of appropriate technology. With this aim the OPAI-2016 National Conference moves on with the theme “ABILITATE ASSOCIATION REHABILITATION”.

**Faculty Strength** permanent / temporary / Ad-hoc. 28/26

#### **Financial Allocation and Utilization**

Grants sanction in Rs (lakhs)            1085Lakhs (Plan) 748.97Lakhs(Non Plan) 275 Lakhs(ADIP Scheme)  
Utilized in RS (lakhs)    1251.43 Lakhs (Plan)    861.52 Lakhs (Non Plan) 248.62 Lakhs(ADIP Scheme)

#### **Placement details**

Number of students getting successful placements : 24  
Number of Companies coming up for campus recruitment: 11  
Number of repeat recruiters: 5

#### **Number and name of Domestic/International (MoUs) signed with partners**

with Indian / Foreign Universities –Dept of P&O  
(One) Netaji Subhash Institute of Technology

#### **Extension and Outreach work**

Number of camps organized in the surrounding areas – 13  
Number of people enrolled / covered in the camps – 1105  
Total number of hours dedicated to these camps – 220

**Journals subscribed – 14**

## **RAJDHANI COLLEGE**

#### **Major Activities and Achievements**

College has been awarded by Delhi Sanskrit Academy for enrolling the maximum number of students in Sanskrit (Hons). Computer Science Department conducted LIGP programme, a series of motivational presentations designed for Value Education for Youth including various modules which act as a roadmap for students in dealing with different critical situations in life. One of the NCC cadets got Bravery Award from the President of India. College got two Bronze and one Silver medal in Delhi State Shooting Championship, a Bronze Medal in Delhi State Taekwondo Championship 2015-16, 2 Gold and 1 Silver Medal in Delhi State Power lifting Championship and a Silver Medal in 10 Kms. Event in Delhi State Championship 2015-16. Trayambakam, the dramatics society brought laurels to the college by securing first place at PIET (Kurukshetra University), BRAC (DU), NIIT (Rajasthan) and second prize at WDC event organized by Miranda House (DU).



### **Outstanding Honours/Distinctions**

Dr. Ganita Bhupal, Assistant Professor, Department of Economics represented India as part of a five member delegation in the First BRICS-SCO Youth Summit held in Ufa, Russia held in July, 2015.

Dr. S.K. Dhaka, Associate Professor, Department of Physics and Electronics served as a Convenor of the major section of Students-Scientists Interaction of India International Science Festival (IISF) 2015 held at IIT Delhi, December, 2015.

### **Research Projects**

Robotics Society has set up a Laboratory in College in the lines of the Digital India and Skill India Programme of the Government of India in collaboration with e-Yatra, IIT Bombay.

12 projects were successfully completed last year, namely- Gesture Control Robot communicated via Bluetooth Module, Remote Control Aero plane, Exoskeleton Arm, Maze-solving Line Follower Robot, Gesture Control Robot communicated via Xbee Module, Self-Balancing Robot, Robo-war Robot, Toxic Gas Sensing Robot, Obstacle Avoiding Robot, IC Testing Board, Temperature and Humidity Sensor, Walkie-Talkie, Noise Detector and Voice Recorder.

### **Library Development**

The College Library has more than 1 Lakh scholarly books and it receives approximately 32 Newspapers and 50 Periodicals. The Library of the College is connected with the N-List Programme of the MHRD (Ministry of Human Resource Development) through which the faculty and students can access more than 6000 E-Journals and more than 1 lakh E-Books with remote log in facility by getting the password from the Library.

### **Publications**

Singh, Chander Shekhar. *Punjabi Intonation: An Experimental Study*. Muenchen, Germany: LINCOM EUROPA.

Bhupal, Ganita.(2016) Heights of Children in Rural Areas and Impact of MGNREGS in an International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health: 2016), Vol-1.

Agrwal, Megha. (2015). *Development in Mean- Variance Efficient Portfolio Selection*. United Kingdom: Palgrave Macmillan.

Payal, Ritu. (2016). Whether to Worry with Waste: A Review on Activated Carbon Precursors from various Waste Materials. *International Journal of Advanced Research*,4(1), 14-20.

Chamadia, Sapna. (2016) *Roz Wali Stri*.

Lumb, Sonia. (2015). Static polarizability of an atom confined in Gaussian and a parabolic potential. *International Eur. Phy. Journal Plus* 130..

Kumar, Suman. (2016).*FALSAFA*. Isha Gyan Deep Prakashan.

Kumar, Sushil.(2016). Image Denoising using Wavelet-like Transform. *International Journal of Advance Research and Innovation (IJARI)*.

Gupta, Varsha. (2016). Communication Skills: A key to Transformational Leadership in Interpretations. Prestige Publishers.

**Conferences attended**

Ms. Divya Singh, Assistant Professor, Department of Physics & Electronics, presented a Paper along with H. K. Malik on Effect of electron neutral collisions and consequent ohmic heating on the mechanism of THz radiation generation in plasma in the International Topical Conference on Charged Particle Collisions and Electronic processes in Atoms, Molecules and Materials (q-PaCE-2016), 9<sup>th</sup>-11<sup>th</sup> January, 2016, organized by Indian School of Mines ISM-Dhanbad, Jharkhand, India, in Association with Indian Society of Atomic and Molecular Physics (ISAMP).

**Faculty Strength** Permanent: 96; Ad hoc : 63 ; Guest: 02

**Placement Details**

Number of Students getting successful placements – 11

Number of Companies/Industries coming for campus recruitment : 4

**Journals subscribed**

Access to e-resources through N-LIST, DULS & UGC-INFONET Digital Library.

Membership of N-LIST INFLIBNET programme provides access to 1,00,000 E-books and 6,000 E-journals.

## **RAJKUMARI AMRIT KAUR COLLEGE OF NURSING**

**Major Activities and Achievements**

Participated in the Sawathya Chhetna Abhiyan organized by Ministry of Health and Family Welfare. Celebrated Ward Health Organization day, No Tobacco Day, Tuberculosis day and breast feeding week etc.

**Outstanding Honours/Distinctions**

Five M.Sc. final year students got distinctions in their respective subjects.

**Research Projects**

Research undertaken as part of the Doctoral Programme under the supervision of Faculty of Rajkumari Amrit Kaur College of Nursing under Indian Nursing Council programme.

A Study to assess the prevalence of radiation induced skin reactions in the cancer patients receiving radiotherapy with a view to develop and seek the effectiveness of structured teaching programme in terms of knowledge and practice for management of radiation induced skin reactions in selected hospital of Delhi.

A study to evaluate the effectiveness of planned health education programme on prevention and early detection of cancer in terms of knowledge, attitude and expressed practices in women, and to screen the high risk cases of cervical cancer in selected community of Delhi.

A study to assess the prevalence of type 2 diabetic mellitus clients with a view to develop and evaluate the effectiveness of self-instructional module on “prevention of diabetes mellitus” for high risk persons in terms of knowledge and self-expressed practices in a selected area of khirki village, Delhi.

A comparative study to assess the effectiveness of injection duration with cold application among patients receiving subcutaneous injection of low molecular weight heparin (LMWH) in terms of level of pain and bruising in selected hospital of Delhi.

A Study to evaluate the effectiveness of healthcare package on prevention of unwanted teenage pregnancy in terms of knowledge, attitude and practice of the adolescent girls (14-19 year) in a selected rural area of Meghalaya.

### **Publications**

Goyal, Harinderjeet. Development and evaluation of Nursing standards for preoperative and postoperative care in terms for Nursing personnel's knowledge and practices and patients outcome undergoing abdominal surgery. ISSN—0075–6841

Rastogi, Sharda. Research management of hypothesis testing research study. ISSN—2231-1475  
---. To assess the knowledge about health care facilities and its utilization in cancer cervix patients admitted in selected hospital of Delhi. ISSN—2231-1475

---. A study on assessment of knowledge and practice of female health worker about facilities for child survival and safe Mother hood program after attending planned teaching program. ISSN—2231-1475

Yadav, Santosh. A study to assess the knowledge and practice of female health worker about facilities offered to ante natal mother in the selected health center of Delhi ISSN—2231-1475

---. On research atheization and evidenced based nursing – practice Nursing research and statistics. Pearson publications (NSRI) ISBN No. 978-81-31-7570-7

Poulose, Ramya & Babu Molly etal. (2015). Effect of Nesting on Posture Discomfort and Physiological Parameters of Low Birth Weight .IOSR Journal nursing and health science vol4: issue 1.

Merlin & Babu, Molly. (2015). Role of parents in the care of mentally challenged children as perceived by parents and care takers with a view to develop an information booklet regarding mentally challenged children in the selected special schools of Tamil Nadu .IOSR Journal of Nursing and Health Science, Vol 4:issue 2.

Sharma, Poonam & Babu, Molly. (2016). Lived experience of PLHIV selected ART centres in Delhi: A Systematic review .International research .Journal of Human Resources and social sciences. vol.3: issue 4.

### **Conferences organized/attended**

Two national level conferences organized by RAKCON.

### **Faculty Strength Permanent – 34**

### **Placement details**

Number of students getting successful placement- 100 %

Number of companies/Industries coming for campus recruitment-10 to 11

Number of repeat recruiters-mostly repeated

### **Inter Institutional collaboration**

GFATM project in collaboration with INC

### **Extension and Outreach work**

Number of camps organized in the surrounding areas. :

10 to 12

Number of people enrolled/covered in the camps :

100 to 150 per camps

Number of students who worked in the camps :

All students have their requirement as a

part of their curriculum

Total number of hours dedicated to these camps : 4 to 6 hours per camps

#### **Journal subscribed**

Number of international journals subscribed (online+paper back version) : 10

Number of National journals subscribed (online + paper back version) : 11

### **RAM LAL ANAND COLLEGE**

#### **Activities and Achievements**

This year, the College organized a grand Fest 'BUZZ' the two-day Annual College Fest in the month of April. The inter-College finale of various events was held in this festival. Punjabi singer Mica Singh also performed in the festival which was witnessed by as many as 10,000 students. Prizes were given to Inter-College winners and apart from small prizes in kinds by various sponsors were given.

#### **Outstanding Honours/Distinctions**

Two students of this College were awarded by the University.

#### **Research Projects**

Innovation Projects:-	RLA 201	4,50,000/-
	RLA 202	6,00,000/-
	RLA 203	5,00,000/-
	RLA 204	3,00,000/-
	RLA 205	7,00,000/-
	RLA 206	5,00,000/-
	RLA 208	3,50,000/-

#### **Library Development**

Total Budget : 8,80,000/-

Books added : 1281

**Faculty Strength** Permanent/Temporary/Ad hoc 80

#### **Financial Allocation and Utilization**

Grant sanction in Rs. 146870000.00

Utilized in Rs. 75215000.00

#### **Placements details**

Number of students getting successful placements : 50

Number of Companies / Industries coming for campus 5-6 Recruitment

#### **Journals subscribed**

Number of National Journals subscribed (online + paper back version) : 52+14 Newspapers

### **RAMANUJAN COLLEGE**

#### **Major Activities and Achievements**

Ramanujan College has been accredited with a Grade 'A' (CGPA 3.09) by NAAC. The first Academic Audit of the college has been conducted. Our College now has a Deen Dayal Upadhyay Centre for Knowledge Acquisition and

Upgradation of Skilled Human Abilities and Livelihood (KAUSHAL). The Centre will be offering two B. Vocational Courses. We have been sanctioned five *Star Innovation* projects and seven *Innovation Projects* by the University of Delhi. Three of our students received scholarships/awards to attend academic programmes abroad. The Environment Audit of College was conducted by Spectro Analytical Labs Ltd. Twelve more porta cabins have been constructed for additional class rooms, medical room, activity room and an indoor gymnasium. An open gymnasium has been made operative. An additional computer lab has been set-up with forty five computer stations using the latest Zero Think Line technology. The college organised five major seminar/conferences and two Faculty Development programmes. Finally, the construction for the much awaited new building of the college has begun.

### **Outstanding Honours/Distinctions**

Dr. S. P. Aggarwal, Department of Commerce got PPS Millennium National Teacher Award, & Distinguished Alumni Award by SRCC.

Dr. Zafar Aijaz, Administrative Officer got Uttar Pradesh Academy and Delhi Urdu Academy awards for his book *Sahir Ludhianvi Shakhshiyat Aur Fun*, 2015.

Jazba's street play *Bhookh* received Sahitya Kala Parishad Award for best street theatre in inter-college competition, 2015.

### **Research projects**

A. UGC-sponsored 'Star Innovation Projects' for the colleges of University of Delhi (*Rs. 87.5 lakhs*):

- A study of Life Styles and Health (Physical & Mental) related problems among Adolescent
- Reliable Data on the Real World of Innovations
- Taking the work of Ramanujan to the next level: An Innovation project in Cartography
- Robotics in Health Care
- Socioevolution

B. 'Innovation Projects' sanctioned by University of Delhi (*Rs. 25 lakhs*):

- Private Coaching Versus Classroom Teaching in Schools/Universities
- Designing Distribution Channel Strategy: Forging Consumer and Producer Synchrony
- To Study the Psychosocial Antecedents of Pro-Social Behaviour and their Related Impact on Subjective Well-Being in Adolescence
- From Tradition to Modernity: Narrating Folklore in Madhubani Paintings: A Film
- Decoding Prevalent Coping Strategies Among the War Vulnerable Inhabitants Across Jammu Border
- How Decommissioning of Old Cart can help Industry and Society Benefits
- Super 30' or Kota Coaching ka Tulanatmak Adhayan

C. Research Projects sanctioned by the Research Committee of the College:

- Attitude to Action: A study on Environmental Awareness and Practices among Undergraduate Level college students in relation to Gender and Academic streams
- Foreign Direct investment in Pharmaceutical industry in India: boon or bane?
- Reservation for economically weaker section children in unaided private schools: problems and prospects
- Gulzar dwara nirdeshit hindi filmo mein manvia samvedna ka vastu vishleshan*
- Uchch Shikshan Sansthan aur media reporting*
- Mind and environment comprehensive study on the impact of environment on writer's creativity with special reference to Ramgarh (Uttarakhand)

### **Students with distinctions**

Bittu Chauhan (3<sup>rd</sup> year student, B. Tech (H) Computer Science) and Dr. Nikhil Kumar Rajput (Faculty), visited West College, Scotland (UK), for computer gaming project under UKIERI Programme of University of Delhi in the summer of 2015

Rohan Rawat (1<sup>st</sup> year student, B. A. (H) Psychology), has been awarded half major scholarship from the International Committee for Adlerian Summer School and Institutes (University of Kent, Canterbury, UK) to attend two weeks Course of the 47<sup>th</sup> annual Rudolf Dreikurs.

Niti Pahwa (3<sup>rd</sup> year student, B.Sc. (H) Mathematics), has secured 100% aggregate marks in the fourth semester in the University examination, April-May 2015

Subham Aggarwal (3<sup>rd</sup> year student, B.Tech (H) Computer Science), went for a three-week internship at London School of Economics (UK)

Aditya Gopal Ganguly (2<sup>nd</sup> year student, B. A. (H) Psychology), won Health Hack On competition for designing 'Sathi' – a mobile app to tackle issues related to adolescent reproductive and sexual health in rural India

Paramjeet, from *Jazba*-the College dramatics society, got admission to the prestigious National School of Drama

Arya Tanmay Gupta, B. Tech. Computer Science, IIIrd Year B. Tech. Computer Science, IIIrd Year (Roll No.-13/0110) got fellowship from Indian Academy of Sciences (Science Academies' Summer Research Fellowship Programme)

### **Library development**

The library has been renovated; a new Teachers' Reading Lounge and a Reference Section have been added, fully equipped with IT facilities and latest books; and 100 new seats have been added to the reading room. Online Public Access Catalogue (OPAC) has been installed, e-book and e-journals through N-List program of INFLIBNET (UGC) has been subscribed, along with the Developing Library Network (DELNET) resource sharing network resources. Old Racks/cupboards of the stack have been replaced by new Godrej book racks. A Book Fair was organised in January 2016. The following are the current library statistics and development in the year 2015-16

Total number of books= 32000 (Added 2000 volume this year)

Total no. of titles = 19500 (Added 1500 titles this year)

Library use (Issue / returns) = 30000 Transaction in the session 2015-16

### **Publications**

Aggarwal, S.P., and Anshika Agarwal. (2016). A Study of CAPM Testing in Education Context, *Ramanujan International Journal of Business and Research*, 1.

Rajput, Nikhil. (2016). Rank Frequency Analysis of Characters in Garhwali Text: Emergence of Zipf's Law. *Current Science*, 110(3).

Jain, Shruti (2015). *Today I am Alive*. Mumbai: Frog Books.

Kumar, Ajay. (2015). Pandita Ramabai Saraswati: Stri Shiksha ki Agraduta (1858-1922). *Adhunik Bharat ka Rajnitik Chintan: Ek Vimarsha*. Ed. Ruchi Tyagi. Delhi: Hindi Karyanvaya Nideshalaya, Delhi Vishwa Vidhyalaya.

Kumar, Vibhash. (2015) *Organisational Behaviour*. New Delhi: International Book House.

Pandey, Alok Ranjan. (2015). *Hindi Bhasha aur Sampreshan*. New Delhi: Satish Book.

Pauls. Mohinder. (2015). Growth of the Kangra Central Co-operative Bank limited-an Evaluation. *Abhinav National Monthly: Refereed Journal of Research in Commerce & Management*, 40(5).

Nagpal, Sumit, R. Mendiratta and V. Ravichandran. (2015). Radii of starlikeness and convexity for analytic functions with fixed second coefficient satisfying certain coefficient inequalities. *Kyungpook Mathematical Journal*, 55(2), 395-410.

Sahil. Pathak. (2015). An Energy Efficient & Load Balanced Clustering Scheme in Wireless Sensor Networks, *International Journal of Computer Networks and Wireless Communications*, 5(4).

Saini, Parul. (2015). Major scams in Indian capital market. *Academecia: an International Multidisciplinary Research Journal*, 5(5).

Sharma, Hari K. (2016). Trends of Regional Integration and SAARC. *Inter- State Conflicts and Contentious Issues in South Asia: Challenges and Prospects for SAARC*. Ed. Emanuel Nahar. Delhi; Kalpaz Publications.

Singh, Rahul. (2015). Groebner Basis and its Applications. *Indian Journal of Research PARIPEX*, 4(11).

Tomar, Sachin. (2015). Inferences on the Mixture Model with Type II hybrid censored data. *Journal of Mathematics in Engineering, Science and Aerospace*, 6(2). 309-317.

#### **Conferences organised / attended**

Department of Commerce, organised one week National FDP on “Learning Research Tools for Quality Research,” 15-20 June 2015.

Department of Commerce organised one week National FDP on “Reflections on Emerging Pedagogy in Higher Education and Qualitative Research,” 18-24 November 2015.

Department of Commerce and Centre for Ethics and Values, in collaboration with the Baha'i House of Worship, organised 5<sup>th</sup> International Conference on “Social Responsibility: The Ethical Dimension,” 12-13 March 2016.

Department of Computer Science and Statistics organised Seminar on “Recent Statistical Computing Techniques and their Application,” 11-12 March 2016.

Centre for Ethics and Values and Commerce, organised Seminar on “Corporate Sustainability: The Role of Ethics,” 18-19 February 2016.

Department of Commerce organised one day National Conference on “Emerging Trends Contemporary Issues in Finance and Marketing,” 08 April 2015.

Department of Hindi organised Seminar on “Sahitya aur Cinema mai Samaj aur Sanskriti,” 31 March - 01 April 2015.

Dr. S. P. Aggarwal presented paper in 12<sup>th</sup> African Finance Journal Conference, May 2015, Cape Town, South Africa.

**Faculty Strength** Permanent : 44;Ad-hoc : 33;Part-Time / Visiting / Guest : 16

**Grant sanctioned and utilised (in Rs.)**

Deen Dayal Upadhyay Centre for Knowledge Acquisition and Upgradation of Skilled Human Abilities and Livelihood (KAUSHAL) (*total sanction Rs. 2.45 crore*)

*Star Innovation* scheme of the University of Delhi (*total sanction 87.5 lakhs*).

*Innovation Projects* by the University of Delhi (*total sanction Rs. 25 lakhs*)

A special UGC grant of 22 lakhs for upgrading sports infrastructure in the College. Additional equipment for both outdoor and indoor gym has been installed.

XIIth Plan Grant for Remedial Classes Rs. 7 Lakhs and for Competitive Classes Rs. 7 Lakhs.

**Placement details**

Number of students getting successful placements	:	229
Number of Companies/Industries coming for campus recruitment	:	10
Genpact, Data Flow, Naukri.Com, ICICI Prudential, Talocity, Tata Consultancy Services, Bajaj Finance, and Ernst & Young		
Number of repeat recruits	:	15

**Number and name of Domestic/International (MoUs) signed with partners**

With Indian / Foreign Universities: 02

MoU signed with the National Institute of Entrepreneurship and Small Business Development (NIESBD), under which a Centre for Entrepreneurship and Small Business Development was set up.

Collaboration with E-yantra (IIT Bombay) and Cluster Innovation Centre for Robotics research and development.

With Indian / Foreign Companies/Industries: 03

MoU signed with Association of International Accountants (AIA, London, UK), NCR Chapter, for running the UGC-approved Course on *International Financial Reporting Standards*, in which 58 participants are enrolled.

MOU signed with TALLY for training students on Tally ERP.9, under which 71 students have enrolled.

Collaboration with the National Skill Development Corporation (NSDC) for running the course on *Associate Analytics*, under which 70 students are being trained.

**Extension and Outreach work**

The Department of Computer Science organised a visit to a slum in Govindpuri on 21 October 2015 collaborating with the LECIN volunteers.

Under the Centre for Ethics and Values, the students visited the old age home, Bhagwat Dham Ashram (23 and 30 August, and 6 September 2015);

Under the Centre for Social Innovation, the students conducted an online survey on the theme *Cleanliness and Sanitation* to gauge the effectiveness of the sanitation facilities in various parts of Delhi and prepared an analysis report on the same.



### **Students under exchange programme**

Bittu Chauhan (3<sup>rd</sup> year student, B. Tech (H) Computer Science) and Dr. Nikhil Kumar Rajput (Faculty), visited West College, Scotland (UK), for computer gaming project under the UKIERI Exchange Programme of University of Delhi in the summer of 2015.

### **Journals subscribed**

The College library has a total number of 41 Magazines and Journals.

### **Other signification information**

The College Foundation Day was celebrated on 22 December 2015, to commemorate the 128<sup>th</sup> birth anniversary of Srinivasa Aiyangar Ramanujan. On this occasion, the 3<sup>rd</sup> Srinivasa Aiyangar Ramanujan Memorial Lecture on “Power of Mathematical Modelling: Some Societal Issues” was delivered by Prof. Karmeshu from the School of Computer and Systems Sciences, Jawaharlal Nehru University, a distinguished academic and the recipient of Shanti Swarup Bhatnagar Award in Mathematical Science (1993).

The Annual Athletics Meet 2015-16, an eagerly awaited day for all the sports enthusiasts, was held on 11 March 2016. Dr. Anil Kumar Kalkal (Director, Sports Council, University of Delhi), graced the occasion as the Chief Guest and awarded medals and trophies to the winners in various events.

The College celebrated the annual inter-cultural festival, JOSH '16, from 17 to 19 March, 2016. Jazba, the College theatre group, organised the Sagar Nagar Memorial Nukkad Natak competition on 12 March 2016, which saw enthusiastic participation from many colleges of the University of Delhi.

The College has introduced the *Ramanujan Awards and Scholarship* for promotion of outstanding contributions in research, academics, innovative teaching, institutional representation and administrative reforms for teachers, students and the non teaching staff.

## **RAMJAS COLLEGE**

### **Major Activities and Achievements**

Ramjas is celebrating its Centennial Year. 99 glorious years have passed and every year Ramjas has progressively been taking little but effective steps closer to becoming one of the top Colleges in the country. In July, 2015 INDIA TODAY, on the basis of Factual ranking at All India Level, listed Ramjas College as:

ARTS	:	05
SCIENCE	:	04
COMMERCE	:	05

These positions reflects the united and collaborative efforts of the faculty members, Non-Teaching Staff and all the students of ‘Ramjas family’.

The College has large number of achievements to its credit for the academic session 2015-16 on all fronts which are as follows:

NSS Ramjas in collaboration with Delhi police commission has organized women self defense camp to make them independent and secure.

On 1st October 2015 Blood donation camp was organized and 2300 Kg of waste paper was recycled.

On 2nd October 2015 students of NSS Ramjas has volunteered at Gandhi Bhawan and helped in successful organization of graffiti making competition.

Science Setu Program was inaugurated in Ramjas College on 4th September, 2015 by Dr. Chandrima Saha, Director, NII.

The workshop on DNA fingerprinting that was organized jointly by seven of NII's partner colleges including Ramjas College.

Two satellite programs: an inter-college essay competition on "Stem Cells" and an inter-college poster competition on "DNA fingerprinting" also featured with the workshop and Ramjas College student Sushmita Mahanta won third prize in the essay competition.

Ramjas stood third in the HSBC case study competition held in Mumbai, which saw participation from all the top colleges of the country, including the prestigious IIT's, IIM's and colleges from the Delhi University, North Campus.

### **Students with distinctions**

Name of the Student	Name of the Course
Dipender Kaur	B.A.(Porg.)
Medha Joshi	B.A.(H) Economics
Dhruv Dikshit	B.A.(H) English
Rajeev Kumar Chaudhary	B.A.(H) History
Arvind Kumar Dubey	B.A.(H) Hindi
Subhash Kumar	B.A.(H) Sanskrit
Pinki Kumari	B.A.(H) Pol. Science
Devesh Singh	B.A (H) Music
Shubham Singhania	B.Com. (P)
Mohit Gupta	B.Com.(H)
Harash Dhankar	B.SC.(P) Life Science
Abhilasha Pandey	B.SC.(H) Mathematics
Sudeshana Perwal	B.SC.(H) Statistics
Apoorva	B.SC.(H) Physics
Krishan Kumar	B.SC.(H) Chemistry
Arun Patter	B.SC.(P) Phy. Science
Akanksha Bhardwaj	B.SC.(H) Botany
Taru Jain	B.SC.(H) Zoology

### Research Projects

DBT-Star College project was sanctioned by Department of Biotechnology (DBT), Govt. of India in 2011. During the past four years of the project, all science departments have joined hands to implement intra disciplinary projects to further enhance skills of undergraduate students. Several workshops, educational excursions to premier laboratories and industries, debate, painting and power-point presentation competitions have been organised by all the departments.

Dr. Suresh Kumar has been sanctioned a major project by SERB(DST) on “Analysis of Bioactive Compounds Present in Medicinal Plant *Anneslea fragrans* Wallich and their Antiuro lithiatic Studies.”

The College received maximum number of innovation projects (09) from the University of Delhi which involve 90 students in Research activities under the guidance of eminent teachers from various departments of our College.

Econophysics Approach to Indian Stock Market: Networks and Multifractal Analysis.

An Interdisciplinary Study of Light Pollution in Indian Context (Extension).

Synthesis of newer Quinazolinone and s-Triazene derivatives and analysis of their inhibitory activity against fungal pathogen *Candida* spp.

Exploring the Impact of ICT on Gender Gap: Evidence from India.

Influence of additives on properties and efficiency of microalgae biodiesel.

To assess insecticidal activity of some plant extracts against *Tribolium confusum* and qualitative estimation of their phytochemical constituent.

Development of Piezoelectric Nano-Composite Prototype for Power through Human Locomotion.

Influence of additives on properties and efficiency of microalgae derived bio-diesel.

Ethnobotanical and antimicrobial study of flora and fauna of Manipur, a biodiversity hotspot region of North East India.

### Library Development

No. of Books bought in the year 2015-16 : 2572.

The library has online access to e-resources provided by *INFLIBNET*.

### Publications

Chandra, Sulekh, Vandana, Suresh Kumar. (2015). Synthesis, Spectroscopic, anticancer, antibacterial and antifungal studies of Ni(II) and Cu(II) complexes with hydrazine carboxamide, 2[3methyl2 thienyl methylene]. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 135.

Kumar, Alok. (2016). Production, Optimization, and Characterization of Organic Solvent Tolerant Cellulases from a Lignocellulosic Waste-Degrading Actinobacterium, *Promicromonospora* sp. VP111. *Applied Biochemistry and Biotechnology*, 179(5). 863-879.

Kumar, Alok, et. al. (2015). Myroides indicus sp. Nov., isolated from garden soil. International Journal of Systematic and Evolutionary Microbiology, 65. 4008-12.

Kumar, Suresh. (2016): Medicinal Plants. Delhi: Campus Books International.

Kumar, Suresh, and Vandana. (2015). Environment and Chemistry, Delhi: Campus Books International.

Mukherjee, Soumya, and Suresh Kumar. (2015). Essential oils: Application, Commercialization and overcoming the limitations. Medicinal plants.

Mukherjee, Soumya. (2015). Regulatory roles of serotonin and melatonin in abiotic stress tolerance in plants. Plant Signalling and behaviour, 10(11).

Panda, P.K. (2016). Contribution of Odisha to Sanskrit. Second Edition. New Delhi: Pratibha Prakashan.

Sharma, Suman, and Sandeep Kaushik. (2015). Assessment of genetic variation and relationship among Brassica sp by RAPD marker. International Journal of current research in bioscience and plant biology, 2(6). 35-42.

### **Conferences organised / attended**

English Department organised an International conference, 17-18th March, 2016.

Snigdha Dewal, Department of Economics, presented a paper on “understanding Complex Systems, Institutions and Political Entrepreneurship – Cases from Europe, China and India,” George Mason University, USA, September 28, 2015.

The 12th South Asia Economics Student’s meet was held in Colombo, Sri Lanka on April, 03rd 2016. A team of 17 students from India under the leadership of Dr. Rajendra Prasad, who is the Chairman of SAESM, visited Colombo alongwith Two teachers of the College Dr. Mihir Pandey, Assistant Professor, Department of Economics and Dr. Deb Kusum Das, Assistant Professor, Department of Economics. The theme of the event was ‘South Asia in the Asian Century.’

**Faculty Strength** Permanent : 110 + Librarian + Principal; Ad hoc : 125 ;Temporary :1

### **Financial Allocation and Utilisation (in Rs.)**

Grant Sanction : Rs. 4116.64 Lakhs

Utilised : Rs. 4101.43 Lakhs

### **Placement Details**

The year 2015-16 proved to be very fruitful for the placement cell. Around 250 students across all streams and subjects participated in the placement drives conducted by diverse corporate institutions. A total of 34 elite companies visited the campus offering job profiles ranging from marketing to research, audit and content writing. Some high profile companies who visited were Wipro, KPMG, Deloitt, NIIT, Genpact and many other excellent start up companies. The average package offered was 4-5 lakhs per annum, with the highest being 11 lakhs per annum. The number of students selected for final placement during the year was around 100.

### **Number and Name of Domestic / International (MoUs) signed with partners**

Centre for International Education (CIE), Ramjas College, University of Delhi, continues to be a star in the prestige of the College. The College has agreements for academic cooperation with 7 institutions viz., International Education of Students (IES), USA, the State University of New Jersey, USA, Denmark’s International Study

Program (DIS), Copenhagen, Faculty and Student Exchange Programme with the University of Antwerp, Belgium, Exchange Programme with Lahore University of Management Sciences (LUMS).

A Memorandum of Understanding / Cooperation Agreement has also been signed with The Washington Center, Washington D.C., USA. The Washington Center for Internships and Academic Seminars offers opportunities to undergraduate students for internships in public agencies and international organizations from four weeks to four months. The Washington Center offers full scholarship to a few students during the January – May semester.

A Memorandum of Understanding has also been finalized with the School of Business and Social Sciences, Aarhus University, Denmark. This agreement covers exchange of students and faculty between the two institutions. Students can study regularly offered courses at the host institution for one or two semesters. Aarhus University will give travel grants to two students per semester from Ramjas. The faculty exchange covers opportunities for research and teaching at the host institution. The Agreement also envisages joint cultural programmes, participation in seminars and academic meetings, exchange of academic material and special short-term academic programmes including summer school.

Science Setu Program - Recently MOU for implementing the Science Setu Program between the National Institute of Immunology and Ramjas College was signed on 26th March, 2015. This programme will help the students to explore, learn and interact with eminent Scientist and visit various Laboratories of the NII.

#### **Extension and Outreach Work**

On November 3rd, 2015 our NSS unit provide platform to kids of an NGO, 'SHIKSHARATH' to showcase their talent through our sub-event 'DR.RAI KEDAR NATH INITIATIVE'.

NSS Volunteers also participated in car free day and digital India campaign arranged by Govt. of Delhi

#### **Journals subscribed**

The library gets online access to all the electronic journals subscribed by University of Delhi through Internet connectivity provided by the University.

#### **Other significant information**

Enactus Ramjas is an organisation under the umbrella of the international organisation. The society was formed for uplifting marginalised and under privileged communities. This society finished second in the Enactus Nationals Competition, where Enactus teams from all over the country showcased their projects. These students were able to help 22 transgenders quit sex work and find alternate employment in the role of jewellery designers. They were also successful in winning major development grants from corporations like Walmart and Indus Towers, and also received funding from an international organisation. One of the major achievements of these students was to help a group of 7 poor women, set up their own tailoring shop in Jahangir Puri.

## **SATYAWATI COLLEGE**

#### **Major Activities and Achievements**

The College was successful in expanding its infrastructure by creating Green House in Nursery of the College and temporary shelter for the Driver and Gardeners of the College. It has also started the process of installation of the Lifts and rising of boundary wall of the College. ENACTUS Satyawati has won a number of national level grants

sponsored by KPMG, Walmart, Blue Dart, HUL, Mahindra Rise. It has also been two times national level qualifiers. Outstanding Honours / Distinctions: Nil

### **Students with distinctions**

Ms. Diksha Malhotra student of our college performed Bharatnatyam in World Cultural Festival organised in Delhi this year and also her name has been nominated in Guinness Book of World Records for her exuberant performance.

### **Research Projects**

Two innovation project are as under:

Assessing the role of Students Initiatives in improving access to social scheme – case study of Delhi Slums.

The Painful lives of Eunuch Community.

### **Library Development**

Total Budget	: Rs. 983100/-
Book Purchased	: 1671
IT Components purchased	: 3 Computers, 1 Printers
News paper, Magazine & Journals	: 48

### **Publications**

Singh A and Singh R (2015). New Concept of using genetically engineered microbial Biosensor. Chemistry and Physics of Complex materials. Editors: Prof. Maria Rajkiewicz, Poland, Wiktor Tyskeiwicz and Prof. Ali Pourahashemi, USA. Apple Academic Press, NJ, USA. Page no. 45-66 (ISBN-9781926895604) by Dr. Rajeev Singh.

Singh A and Singh R (2015). Immunological Databases and Its Role in Immunological research. Life Chemistry Research Biological Systems. Editors: Prof. Roman Joswik, Poland, Prof. Gennady E. Zaikov, Russia, Prof. A.K. Haghi, Canada. CRC Press: Taylor and Francis Group, USA. (ISBN 9781771880688) by Dr. Rajeev Singh.

Singh R and Singh A (2015). Role of Databases in Biological Data Analysis. Editors: Prof. Ana Cristina Faria Ribeiro, Prof. Cecilia I. A. V. Santos, Prof. Gennady E. Zaikov. CRC press, Apple Academic Press, NJ, USA. (ISBN 9781771882590) by Dr. Rajeev Singh

Singh A, Singh Rand Gupta N (2015). Role of Supercomputers in Bioinformatics. Research and applications in global supercomputing. Editors: Prof. Segall, Richard S., USA, Jeffrey S. Cook, USA and Prof. Qingyu Zhang, China. IGI Global, USA. Page No. 223-241 (doi:10.4018/978-1-4666-7461-5). by Dr. Rajeev Singh

### **Seminar / Conference Organised**

National Seminar on “Relevance of Gandhian Thought”, 10<sup>th</sup> October 2015.

International Seminar on “India’s Foreign Policy and the Neighbouring States”, 19<sup>th</sup> January 2016.

International Conference on “India At 67”, 29<sup>th</sup> March 2016.

National Seminar on “Role of Behavioural Finance in Indian Finance Market”, 30<sup>th</sup> March 2016.

**Faculty Strength** Permanent: 116; Temporary: 01; Ad-hoc: 24

### **Financial Allocation and Utilisation (in Rs.)**

Grant Sanction	: 25581/-
Utilised	: 2651.33/-

**Placement Details**

Number of students getting successful placement	: 81
Number of Companies / industries coming for campus recruitment	: 4

**Extension and Outreach Work**

Number of camp organised in surrounding area	: 5
Number of people enrolled / covers in the camp	: 350
Number of students who worked in the camp	: 90
Total numbers of hours dedicated to these camps	: 75

**Journals subscribed** 28 (online + paper back version)

**SATYAVATI COLLEGE (EVENING)****Major Activities and Achievements**

Our students have excelled in B.Com courses with scores ranging between 70% - 84%; B.A. (Prog.) 65% - 80%; above 70% in Hons. Courses in English, Hindi, History and Political Science. Our college also encourages students to excel in Arts & Crafts, Photography, Dance, Dramatics, Debating and Creative Writing. In sports, our teams participated in most inter college Delhi University tournaments and sports. Our college won two gold medals in Bodybuilding and one gold in power lifting championships. Our NCC unit held its annual mega event: 'Shaurya' with inter college student participation in various competitive events, demonstrations and presentations – an effort much appreciated by Delhi's Chief Minister and his Deputy. Our NSS unit, active in wide-ranging activities, manned help desks during student admissions, organised cleanliness drive "Pink Chain Campaign" under the guidance of Dr. Abhishek Shankar from AIIMS and Diwali Donation Champ. That our college faculty and students are mutually motivating and inspiring is evident from their interest manifested in three innovation projects awarded to the college by Delhi University.

**Outstanding Honours / Distinctions**

Dr. S. C. Panda and his student Rashi Thareja were credited with the Best Paper Award in the UGC sponsored National Conference in November, 2015 held at Zakir Hussain College (E). The title of the paper was "An Empirical Analysis of the Motivational Factors for Women to Undertake Entrepreneurial Activity".

Dr. Mayank Kumar, Associate Professor, Department of History has been given the UGC National Research Award 2014-16 for his work "Humans and Natural World: A Study in the Social Perceptions, Interactions and Responses in the 17th and 18th Century Rajasthan."

**Research Projects**

Dr. Bharat Singh, Dr. Rajiv Kumar Verma, Dr. Ved Prakash Bansal, Dr. Shiba C Panda and Dr. Prabhat Mittal have been awarded University Innovation Project (SEC 301): "Participation of women in MNREGA: A Case Study of Selected Districts in Himachal Pradesh".

Dr. Ashutosh Kumar, Ms. Tarakeshwari Negi, Dr. Shashi Bhushan Singh and Dr. Niranjana Mahto have been awarded University Innovation Project (SEC 302) : "Diminishing water availability in the national parks and implications for wildlife: A study in the feasibility of policy initiatives in the selected regions of Rajasthan".

Dr. Manjul Singh, Mr. Himanshu Singh and Mr. Dharmendra Kumar have been awarded University Innovation Project (SCE 303): "Socio-Economic Empowerment of Muslim Women in India: Case study of Aligarh".

Dr. Shiba C. Panda, Associate Professor, Department of Commerce has successfully completed a UGC Major Research Project on “Entrepreneurship and the Underprivileged” (2013-15).

### **Library Development**

The college Library has a fully air conditioned reading room with seating capacity of 80. A dedicated computer section of eleven work stations with specially designed software for differently abled has been developed. It is completely automated with in-house operations through NetLib Library Management Software. It has its own web portal providing all relevant information of library and linkages to Delhi University Library System (DULS). Various information services, like reference service, e-reference service CAS, SDI, Article on demand etc, are also being offered.

### **Library Statistics**

Books	: 71000 +
Journals and magazine	: 30
Newspapers	: 23
Computers	: 11
Scanners	: 03
Printers	: 03
Projectors	: 02
Multimedia Board	: 02

### **Publications**

#### **Books**

Kashyap, Virender Singh. (2015). *Anchalik Upanyas Aur Ramdharash Mishra Krit Pani Ke Pracheer*. Delhi: Suryaprabha Prakashan.

Mishra, Vijay Shanker. (2016). *Tulsi Kavya Mein Itihas Bodh*. New Delhi: Swakshar Prakashan.

Ravichandran, A. (2015). *Human Resource Management: Issues Confronting Indian Higher Education*. Germany: Scholar's Press.

Singh, Neerja. (2015). *Patel, Prasad and Rajaji: Myth of the Indian Right*. India: Sage, 2015.

#### **Journal Articles and Book Chapters**

Gupta, Keshav. (2015). Empirical Study of Customer Shopping Behavior in Retail Store. *International Journal of Marketing & Financial Management ARSEAM*. 3(11), 21-37.

Kumar, Mayank. (2015). Monsoon se Samanjasya Banata Samaj: Samdarbh Rajasthan. *Pratimaan*. 3 (3), 602-616.

Mittal, Prabhat. (2016). Quantifying the Bullwhip in Multi-location Supply Chain Network: The Impact of Demand Forecasting. *BULMIM Journal of Management Research*. 1(1), 55-60.

Singh, Bharat. (2015). Analysis of Skill Intensity of Manpower in Indian Manufacturing Sector, *SPET Research Journal of Social Sciences*. 3(2), 69-76.

Singh, Rameshwer. (2016). Sport and Anti-Sport: Big Game Hunting in Jim Corbett's India. *Sport: Identity and Community*. Eds. Andy Harvey and Richard Kimball. Oxford: Inter-Disciplinary Press. 41-51.

Verma, Rajiv Kumar. (2015). Linkages between Society, Environment, Development, Education. *VEETHIKA - An Interdisciplinary International Research Journal*. 1(2), 117-126.



### **Conferences organised and papers presented**

National Seminar on “Dr. B. R. Ambedkar’s Vision for Modern India.” 08 February, 2016.

National Seminar on “*Maharana Pratap and his times*” in collaboration with Ministry of Culture, Nehru Memorial Museum and Library, New Delhi and Department of History and Indian Culture, University of Jaipur, Jaipur. 04<sup>th</sup> March 2016.

National Workshop on “*Rajasthan Histories: Fresh Approaches*” at Nehru Memorial Museum and Library, New Delhi on 14<sup>th</sup>-15<sup>th</sup> October 2015 in association with Dr. Tanuja Kothiyal.

Dr. Mayank Kumar presented a paper, “Waterscapes of Desert: A study in the hydrology and sociology of step-wells and Johara of 13<sup>th</sup>-17<sup>th</sup> Century Rajasthan, India,” at VIIIth International European Society for Environmental History Conference, organised by University of Versailles-Saint-Quentin-en-Yvelines, Versailles, France, 30<sup>th</sup> June - 03<sup>rd</sup> July 2015.

**Faculty Strength** Permanent: 51+ 01(OMSP Instructor) Ad-hoc : 48+01 (DPE)

### **Financial Allocation and Utilisation (in Rs.)**

Grant sanctioned (In crores) : 1967.76

Utilised : 1650.49

### **Placement Details**

Number of students getting successful placements : 17

Number of Companies/Industries coming for campus recruitment : 03

### **Extension and Outreach Work by NCC unit of the college**

Number of camps organised in the surrounding areas : 06

Number of people enrolled / covered in the camps : 200

Number of students who worked in the camps : 150

Total number of hours dedicated to these camps : 120 hrs / cadet (Approx.)

### **Journals subscribed**

The college has access to INFLIBNET resources provided by Delhi University Library System. Apart from it, it has also subscribed four national journals.

## **SCHOOL OF OPEN LEARNING**

### **Major Activities and Achievements**

The admissions for all Undergraduate (Honours) programmes for the academic year 2015-2016 (I, II and III year) were made online. However, admissions for B.A. Programme (I) year were done online as well as offline through the IDBI branches scattered all over Delhi to facilitate large number of students. Issuance of I-Card / Hall tickets and Demand-Cum-Examination Form for all Honours were made through online. Demand-Cum-Examination Form for B.A/B.Com II and III year students of UG Programmes were issued online and also got submitted online for the academic session 2015-16. Around 30 Study Centres of SOL were established in different colleges of the University of Delhi for conducting Personal Contact Programme classes of U.G. Programmes for the academic session 2015-16. The Internal Complaint Committee, SOL organised Self Defence Training Classes for Girl students of School of Open Learning during 21-09-2015 to 30-03-2016 in five different batches.

### **Outstanding Honours / Distinctions**

The School of Open Learning, University of Delhi has been awarded ASSOCHAM India Educational, National Excellence Awards 2016 for Best University in Open, Distance and Online Learning.

### **Library Development**

SOL library has adopted an Integrated Library Management System (ILMS) which is an Enterprise Resource Planning (ERP) system with various functions of libraries management such as Acquisition, Cataloguing, Circulation, Serial, OPAC etc. It has access to INFLIBNET E-resources. It is also envisaging Digital library for Open learners (DLOL). Along with Equal Opportunity Cell (EOC) for visually impaired students, it has procured special gadgets such Daisy players, Read Easy reading machines, Readit HD Scholar, Braille Display, Braille Sense U2, and is facilitating the visually impaired students.

Total Budget : 83 Lakh

Number of books added : 15807

### **Publications**

Bhatt, Mayank, and Shabnam Pandey. (2016). Traffic Collision Avoidance in VANET Using Computational Intelligence. *International Journal of Engineering and Technology (IJET)*. 8 (1). 364-370.

Pandey, Anjali. (2016). Cloud computing: A Green Solution. *Computer Science & Information Technology: Trends, Challenges and Issues*. New Delhi. 279-284.

### **Conferences organised / attended**

School of Open Learning and Developing Countries Research Centre, University of Delhi organised one day Seminar on “New Directions in Indian Polity: The Way Forward”, 11 March 2016.

School of Open Learning organised one day Orientation Workshop on e-content Development at Consortium for Educational Communication, 4<sup>th</sup> Feb. 2016.

**Faculty Strength** Permanent: 30; Temporary: 01

**Journals subscribed** 04

## **SHAHEED BHAGAT SINGH COLLEGE**

### **Outstanding Honours / Distinctions**

Dr. Shivani Arora, Department of Commerce, was invited as Resource Person at Human Resource Development Centre, Jamia Millia Islamia to address sessions for Orientation / Refresher courses held during 2015-16. She was also awarded the Certificate of Outstanding Contribution in Reviewing by the Chief Editor of *International Journal of Business and Information*, National Taipei University, Taiwan, and conferred the Membership of the International Institute of Social and Economic Sciences in July, 2015.

Dr. Meera Mehta, Assistant Professor, Department of Commerce was nominated Reviewer for the World Finance Conference, New York, 2016.

Dr. Nikita Setia, Assistant Professor in the Department of Mathematics, was awarded Ph.D. degree for her thesis “High Accuracy Off-step discretizations for the multi-dimensional quasi-linear elliptic and parabolic partial differential equations” by the University of Delhi, Delhi.

Dr. Rityusha Mani Tiwari, Assistant Professor, Department of Political Science, was nominated as a Member of the high level academic delegation of 20 members to China (Beijing and Shanghai) from 15-22 December 2015, organised by the Ministry of Foreign Affairs, Peoples Republic of China. The program included exchange of views by scholars from India and China on issues of regional security, economic integration in Asia Pacific, international co-operation in counter terrorism, climate change, cyber security, international economy and finance.

Dr. Shantesh Kumar Singh, Assistant Professor in the Department of Political Science has been selected for Dr. S. Radhakrishnan Postdoctoral Fellowship in Humanities and Social Sciences by University Grants Commission, New Delhi, India for 2015-17.

### **Research Projects**

Dr. Swati Rajput, Principal Investigator, Dr. Kavita Arora and Dr. Rachna Mathur (Co-Investigators) are working on research project on “Stipulating the Role of Urban Agriculture and Forestry in the Urban Environment: Mapping and Analysing Green Spaces in Urban Land Use of Delhi.”

Dr. Vishwa Raj Sharma, Principal Investigator, Dr. Neha Arora and Mr. K. Krishnadas (Co-Investigators) are working on research project on “Earthquake Disaster Vulnerability Assessment and Management in Delhi.”

### **Library Development**

Total Budget (in Rs.)	: 17,86,502/-
Number of books and journals added	: 2854/-
Internet facilities upgraded	: Yes

### **Publications**

Pou, K.B. Veio. (2015). *Literary Cultures of India's Northeast: Naga Writings*. New Delhi: Heritage Publishing House.

Raman, V. A. V. (2016). *Interfluves in Middle Ganga Plain: A Study of Recent Channel Dynamism and Land Use Change*. New Delhi: Book Age Publications.

### **Conferences organised / attended**

Department of Commerce organised 5th National Conference on “Marketing in the 21st Century: Issues and Challenges” on February 5-6, 2016.

Department of Geography organised 9th IGU International Conference on “Land Use Change, Climate Extremes and Disaster Risk Reduction” on March 18-20, 2016.

Department of English, in collaboration with the Indian Society for Commonwealth Studies, organised International Seminar on “Multiculturalism and Globalism: India and the World”, on 29 January 2016.

Department of Political Science organised a National Seminar sponsored by ICSSR on the theme “Revisiting Dr. Bhim Rao Ambedkar in the Era of Globalisation” on 12th March, 2016.

Dr. Jai Ram Meena presented a paper “Social Networking Addiction: Are the youth of India and US addicted?” at the Business and Management Conference held by Institute of Social and Economic Sciences, Vienna, Austria, June 21-25, 2015.

Dr. Suraj Mal gave poster presentation on “Implications of Sendai Framework of Disaster Risk Reduction for South Asia: Post Geneva Follow-up Action by Trans-disciplinary Academic Community for Policy Briefing” at Science and Technology Conference on the Implementation of the Sendai Framework for Disaster Risk Reduction 2015-30 held by United National International Strategy for Disaster Risk Reduction (UNISDR), Geneva, Switzerland, 27-29 January 2016.

Dr. Vishwa Raj Sharm presented a paper “Dynamics of Urbanisation and Deteriorating Atmospheric Quality in Metropolitan Regions of India - A Case of Agra” at the International Geographical Union (IGU) Regional Conference, Moscow, Russia, 17-21 August 2015.

Dr. Bageshri Chakradhar presented a paper titled “Gandhi Kee Bhaasha Neeti (गंधी की भाषा नीति)” at the international seminar organised by Indian Literary and Art Society of Australia Inc. (ILASA), Sydney, Australia, 12-14 June 2015.

Dr. Bageshri Chakradhar presented a paper “Praakritik Aapdaon par Sahitya kee Bhoomikaa (प्राकृतिक आपदाओं परसाहित्य की भूमिका)” in the international Hindi conference organised by Northern Region Indian Senior's Association (NRISA), Melbourne, Australia, 20-22 June 2015.

**Faculty Strength** Permanent: 101; Ad hoc: 50

#### **Placement Details**

Number of students getting successful placements : More than 200  
Number of Companies/Industries coming for campus recruitment : More than 20

### **SHAHEED BHAGAT SINGH (EVENING)**

#### **Major Activities and Achievements**

The College organised Shaheed Bhagat Singh Memorial lecture on the Martyr's Day, 23<sup>rd</sup> of March, 2016. Padma Shri Ram Bahadur Rai, an eminent journalist, delivered this year's memorial lecture on the life and philosophy of Shaheed-e-Azam Bhagat Singh. Department of History of the College celebrated Itihaas Divas on 9<sup>th</sup> March, 2016 especially to motivate the students to conserve and appreciate historical memorabilia (daggers, horns, plaques, cups, bowls, paintings, textiles, ornaments, coins, pipe, and measuring instrument) that were displayed by the students. 23 volunteers of NSS of College took part in a youth Convention organised by Ramakrishna Mission, on January 30, 2016 to empower youths in taking crucial decisions.

#### **Outstanding Honours / Distinctions**

Dr. S.K. Bandooni, Associate Professor, Department of Geography, was awarded certificate by Honorable Home Minister of India for doing work to sustain the society in Uttarakhand, organized by Uttaranchal Uthan Parishad, Delhi on 1 April, 2015.

Dr. S.K. Bandooni was also the member of Editorial cum Expert Board for “Bihar ka Bhugol, 2015”, CSTT (Commission for Scientific and Technical Terminology), Ministry of Human Resource Development, Govt. of India.

### **Research Projects**

Dr. S. K. Bandooni, Dr. Vijay Lata Tyagi, and Dr. Anupma M. Hasija have been awarded University Innovation Project (P-301): “The use of GPS and GIS in Identifying and assessing the Changing Land use Patterns mainly due to out migration in Lachigad Watershed in Garhwal Himalaya”.

Dr. V. S. Negi, Mr. S. K. Sinha, and Dr. C. S. Dubey have been awarded University Innovation Project (P-302): “Climate Change, Traditional Life Styles and Livelihood Questions: Understanding the Socio-cultural and Physical Constraints of Remotely Located Societies of Western Himalaya”.

### **Library Development**

Our College has a fully furnished air-conditioned and fully computerised library. The Library has over 43000 books on our shelves and subscribes in many slandered magazines, periodicals, newspapers and journals. Apart from the books catering to the course requirements, we have books on computers, Sports, Psychology, Sociology, Education, Religion, Philosophy, Gardening, Cooking, Children’s literature and Library Science. The Library boasts of complete access to e-resources of the University of Delhi.

### **Conferences organised**

Department of commerce organized UGC sponsored a two day national seminar on the topic “Global Trade in Service: A WTO Perspective” on 30-31 March, 2016 at India International Centre, New Delhi. The seminar was inaugurated by Prof. Biswajit Dhar, Centre for Economic Studies and Planning, JNU, Former Director General, Research and Information Systems for Developing Countries and founder of WTO Centre at IIFT, Delhi and he also delivered the keynote address.

Department of Political Science organized a one day national seminar on the topic “Dr. B.R. Ambedkar’s Timeless Legacy” on 18 April 2016 in collaboration with Indian Institute of Public Administration, New Delhi. Chaudhary Birendra Singh, Union Minister for Rural Development, Government of India, inaugurated the Seminar, Shri K.G. Suresh, Director General, IIMC, New Delhi delivered the key note address.

### **Conferences Attended**

Dr. S. K. Bandooni, Associate Professor, Department of Geography presented a paper on “Climate Change and Socio Transformation with Special Reference to the North East India” at the National Seminar and Technical Sessions of the North Geographical Society hosted by the Department of Geography and Resource Management, Mizoram University (Central), on 5-6 November, 2015 and also chaired the Technical session IV at the seminar.

Dr. Sabina Pillai, Associate Professor, Department of English presented paper “Dictionary Matters” at IATEFL conference in Birmingham, United Kingdom, April 2016.

Dr. S. K. Bandooni, Associate Professor, Department of Geography presented paper “Impact of Outmigration on Socio-Economic Condition in Pasolgad Watershed, Garhwal Himalaya” at 9<sup>th</sup> International Geographical Union (IGU) Conference organised by Shaheed Bhagat Singh College, University of Delhi, 18-20 March, 2016.

Dr. S. K. Bandooni, Associate Professor, Department of Geography presented paper “Corporate Social Responsibility and Sustainability: A case study of Naugura Watershed in Garhwal, Uttarakhand, India, at 9<sup>th</sup> International Geographical Union (IGU) Conference organised by Shaheed Bhagat Singh College, University of Delhi, 18-20 March, 2016.

**Faculty Strength** Permanent: 59; Ad-hoc: 42

**Financial Allocation and Utilisation (in Rs.)**

Grant sanctioned	: 18,47,08,760/-
Utilised	: 17,28,68,258/-

**Placement Details**

Number of students getting successful placements	: 105
Number of companies/Industries coming for campus recruitment	: 11

**Extension and Outreach Work**

Number of camps organized in the surrounding areas	: 2
Number of people enrolled/covered in the camps	: 600
Number of students who worked in the camps	: 300
Total number of hours dedicated to these camps	: 8

**Journals subscribed** 7+56 (online + paper back version)

## SHAHEED RAJGURU COLLEGE OF APPLIED SCIENCES FOR WOMEN

**Major Activities and Achievements**

College has been accredited grade “A” by National Assessment and Accreditation Council (NAAC). The peer review team constituted by NAAC authorities visited college on 5-7 November 2015. The college established the Entrepreneurship Development Cell on 09 October, 2015, inaugurated by the honourable Deputy Chief Minister, Govt. of NCT Delhi, Mr. Manish Sisodia. The E-Cell is planning to establish an incubation centre in the college with the help of ISBA with the objective of helping students in transforming their ideas into reality & to begin their start-ups. Good Lab Practices have been streamlined in all labs and proper log books are maintained for all equipments. Also, Students Feedback has been upgraded and is now accessible online. The process of Guardian/ Parents’ feedback has also started. A Central Data Bank of the college is now being developed. CISCO Networking Academy in collaboration with CISCO networking systems organised a splendid event “Women Rock IT” on 23 February 2016.

**Outstanding Honours / Distinctions**

Dr. Daya Bhardwaj has been awarded Doctor of Philosophy by TERI University.

Dr. Shalu Sharma, Assistant Professor, Department of Mathematics, has been awarded Ph. D. by University of Delhi.

Yogesh Pratap, Assistant Professor, Department of Instrumentation got “Best Paper Award” for the paper entitled “CSDG MOSFET: An Advanced novel architecture for CMOS Technology” presented in International Conference “INDICON”, held at Jamia Millia Islamia University, New Delhi, 17-20 December 2015.

**Research Projects**

The college got 18 innovation projects sanctioned this year which is the highest in the University. Out of these 14 are currently being undertaken. They are as follows:

Dr. Alka Vohra Kuanr, Ms. Sonia Ahlawat, and Dr. Rekha Mehrotra got University Innovation Project (301): “Synthesis and characterization of magnetic nano particles for tumour treatment”.

Dr. Akanksha, Ms. Tina Sachdeva, and Ms. Neha Garg got University Innovation Project (302): “Group based coordination for information exchange in ad-hoc networks”.

Dr. Indu Arora, Ms. Chaynika Babbar, and Dr. Hema Kundra got University Innovation Project (303): “Transition metal based spinel oxide-graphene nanoribbon composites for removal of pesticides from water”.

Ms. Venika Gupta, Dr. Projes Roy, and Ms. Seema Thakur got University Innovation Project (304): “Impact of behavioural addiction to use of gadgets on physical and mental health”.

Ms. Deepali Bajaj, Ms. Para Dholakia, and Ms. Asha Yadav University Innovation Project (306 ): “Health Buddy-Android based mobile application to track nutritional intake of young college students”.

Dr. Varsha Mehra, Dr. Ranjana Singh, and Ms. Shikha got University Innovation Project (307): “Bioactive component quantification and inhibitory activity of *Murraya Koenigii* (Curry leaf) extracts against key enzymes linked to the pathology and complications of type 2 diabetes”.

Dr. Manisha Khatri, Dr. Deepa Joshi, and Dr. Payal Mago got University Innovation Project (308): “Design, Synthesis and evaluation of antidiabetic activity of substituted alkylcarboxylic acid derivatives as GPR40 agonists”.

Dr. Jasjeet Kaur, Ms. Daya Bhardwaj, and Dr. Shuchi Dhingra got University Innovation Project (310 ): “Assessment and co-relation of air quality index of east Delhi region with vital respiratory parameters of adolescent population”.

Dr. Sadhna Jain, Dr. Punita Saxena, and Ms. Ritu Jain got University Innovation Project (311): “Biochemical evaluation of sprouted fenugreek seeds for nutraceutical management of type-2 diabetes using in vitro assays”.

Dr. Mohd. Saquib Ansari, Dr. Safdar Ali, and Mr. Deepak Jaiswal got University Innovation Project (312): “Complexity of repeat sequences in differential genomes of plant/animal infecting viruse”.

Dr. Radhika Bakhshi, Ms. Saumya Chaturvedi, and Dr. Neha Katyal got University Innovation Project (313): “Unravelling the genetic basis of Acute Myeloid Leukaemia (AML)”.

Dr. Shruti Banswal, Ms. Vandana, and Ms. Urmil Bharti got University Innovation Project (314): “Isolation and characterization of halotolerant bacteria from saline environments and study the effects in wheat seedlings”.

Dr. Amita Kapoor, Dr. Suruchi Chawala, and Ms. Shalu Sharma got University Innovation Project (315): “Development of Garden-bot : An automatic irrigation system sensing soil moisture content using self made sensor for efficient use of resources and optimum flow of water in the fields”.

Dr. Sneha Kabra, Ms. Himani Dua, and Ms. Ritika Chopra got University Innovation Project (316 ): “Low cost eco friendly Solar Inverter — A standalone solar power system for households”.

Ms. Preeti Singhal, Ms. Monika Tyagi, and Mr. Sumit Kumar got University Innovation Project (317): “Mobile phone based attendance app : An innovative approach towards futuristic e-colleges”.

### **Library Development**

The College library has started subscribing too NLIST digital resources besides DULSA and INFLIBNET e-resources. The NLIST has around 6000+ electronic journals and 135000+ electronic books which are accessible through Login / Password, it is free of restricted IP address, therefore is accessible from anywhere.

## **Publications**

Gupta, Venika, Madhu Pandey, Payal Gupta, Shreya Rai, Shweta Gupta and Sonia Ahlawat. (2016). IIR Digital Low Pass Filter Design and Research and Simulation Result on Scilab. The conference proceeding of National Conference on Advancements in Electronics and Computer Applications.

Singhal, Preeti, Monika Tyagi, Sumit Kumar, Damini Bhatt, Akshara Rai, Madhu Pandey and Ritu Gupta. (2016). Designing a Mobile Application with OTP technique as an enhancement to e-attendance. The conference proceeding of National Conference on Advancements in Electronics and Computer Applications.

Saxena, Punita, RR Saxena and Deepak Sehgal (2016). Efficiency evaluation of the energy companies in CNX 500 Index of the NSE, India using data envelopment analysis. *Benchmarking: An International Journal*, 23(1).113-126.

Sodhi, GS and Jasjeet Kaur. (2016). Physical developer technique for detection of latent fingerprints: A review. *Egyptian Journal of Forensic Sciences*. 6.

Dholakia, Para. Athira Unnikrishnan, Disha Gupta, Kaavya Raveendran, Lavika Singh, Mansi Manchanda. Vitamin D Deficiency: Emerging Epidemic Meeting the Challenge. The Conference Proceeding on National Conference on Advances in Food Science and Technology. Delhi: Cherub. 103-107.

Bajaj, Deepali, Isha Mangal, and Asha Yadav. (2015). Towards an understanding of Li-Fi: Next generation Visible Light Communication Technology. *International Journal of Engineering And Computer Science*, 4. 11638-1164.

Samim, Mohammed, Mohammad Anwar, Deepak Yadav, Swati Jain, Sumeet Kapoor, Indu Arora, and Shweta Rastogi. (2016). Size- and Shape-dependent Clinical and Mycological Efficacy of Silver Nanoparticles on Dandruff. *International Journal of Nanomedicine*, 147.

Alam, CM, A Iqbal, B Thadari, Safdar Ali. (2016). Imex Based Analysis of Repeat Sequences in Flavivirus Genomes, Including Dengue Virus. *J Data Mining in Genomics and Proteomics*. 7(1).

Katyal, Neha, Saloni Mehta and Ruchika Jha. (2016). Holographic Data Storage: Review. The conference proceeding on Advancements in Electronics and Computer Applications.

## **Conferences organised / attended**

Department of Electronics & Computer Science organised a UGC and DeitY sponsored National Conference on Advancements in Electronics and Computer Applications on 4-5 February, 2016.

The Department of Food Technology organised National conference on “Advances in Food Science and Technology” on 16-17 March 2016.

A workshop was organised by college on 08 February 2016 to 13 February 2016 to give hands on training to students of M. Sc. Anthropology, Delhi University in field of biological, biochemical, analytical techniques.

Department of Computer Science and Electronics organized lecture series on ‘Android Technologies’ in association with Xperia Infotech, Pvt. Ltd. Noida from 14th December to 22nd December, 2015.

The students and faculty attended DBT organized Workshop-cum-Camp on Foldscope, an origami microscope at Sri Venketeswara College and public lecture at Gargi College including the interaction session for teachers and students of different life science departments in colleges supported by DBT under the Star College Scheme.



**Faculty Strength** Permanent : 21 ; Ad hoc : 23

**Financial Allocation and Utilisation (in Rs.)**

Grant sanctioned : 11,82,84,600.00

Utilised : 10,10,90,765.67

**Extension and Outreach Work**

Activities undertaken by NSS: International Yoga Day, NSS Day Celebrations, Ekta Diwas, Shaheed Rajguru Day, Literacy Drive, Self Defence Classes, Vermicomposting, Collection Drive, Eye Check-up Camp and Digital India Drive.

The Students along with teachers visited the DDA market in Vasundhra Enclave and took an overview of the situation. A group of 5 students and 2 teachers visited every day. They spoke to the President and Secretary of the Market Association and discussed the problems faced by them. They also installed Fixed Metallic dustbins in the market and demonstrated how to pick up litter and use the dustbins.

Women Development Cell in collaboration with Women’s Initiative for Liberation, Growth and Action (WILGA) organised a panel discussion cum interactive session and a workshop on “Violence against Women” on 10 October 2015 14 March 2016 respectively.

**Journals subscribed** 02

## **SHAHEED SUKHDEV COLLEGE OF BUSINESS STUDIES**

**Major Activities and Achievements**

Over the past year, we have achieved new heights. Our students’ achievements have gone up in both quality and quantity. Student placements have gone up in terms of number of offers and the packages. Our students have opened, worked with and made successful numerous start-up ventures. Faculty development via participation in conferences, FDP’s, Orientation and Refresher courses and publications has been enhanced. A number of Innovation projects have been approved to facilitate student-faculty research and societal development. We hope to shift soon to a new campus in Rohini. An ‘A’ grade certification from NAAC serves to underscore our achievements and academic credentials. As a testimony to the entrepreneurial capabilities of our students and the college, we are the only undergraduate college to have been chosen and given financial grant by the Govt. of NCT of Delhi for setting up an Incubation Centre for promoting entrepreneurship and start-ups.

**Outstanding Honours / Distinctions**

The college of has been awarded Grade ‘A’ by NAAC

Only undergraduate institution selected by the Govt. of NCT of Delhi for setting up an Incubation Centre for promoting Entrepreneurship with an initial grant of Rs. 1.5 crores

**Students with distinctions**

Lokender Singh (B.Tech) developed IT tools, apps and softwares for use by the college – Cloud Storage System, Network Security Analyzed Report, college Mobile App and Library Software

Arjun Kasana (BMS) founded a Trust Name THINKnRISE with the purpose of providing self-learning environment with digital assistance to all. Received UPF (Universal Peace Foundation) award. Project E-Blood Bank, a health care initiative started by me has been made compulsory in all over the country by Govt. Of India.

Jayant Verma (BMS), a prolific quizzier, has represented the college in numerous quizzes and has won (positions 1,2 and 3) over 25 quiz events hosted by DU Colleges, IIT's, TERI University, Ambedkar University Delhi and DTU and other academic institutions.

### **Research Projects**

Title: Quantifying the impact of corporate operations on Environment

Duration: August 2015 to August 2016

Mentor: Prof Sanjay Sehgal, Department of Financial Studies, University of Delhi (South Campus)

Principal Investigator: Dr. Kumar Bijoy

Title: Project Raahat

Duration: August 2015 to August 2016

Mentor: Mr. K.K. Sharma, Executive Engineer, DUSIB

Principal Investigator: Dr. Anuja Mathur

Title: Web Based Automation for the Self Assessment of an Educational Institute

Duration: September 2015 to August 2016

Mentor: Dr. Naveen Kumar, Associate Professor, Department of Computer Science, University of Delhi

Principal Investigator: Dr. Anamika Gupta

Title: E-waste management: A social responsibility towards sustainability

Duration: September, 2015 to March, 2016.

Mentor: Col. R Johri, ME (Environmental Engineering), Senior Fellow and Organising Secretary, IWF, The Energy and Resources Institute (TERI)

Principal Investigator: Mr. Ramesh Kumar

Title: Financial Literacy among Indian Youth: A Study of University of Delhi's Students.

Duration: Aug, 2015 –present

Mentor: Prof C.P. Gupta, Ex-Dean, Faculty of Commerce & Business Studies, DU.

Principal Investigator: Mr. Narander Kumar Nigam.

### **Library Development**

The library adds new titles in its collection on regular basis which as of now, holds 19,870 books. In addition, the library subscribes to 52 magazines and journals (40 national and 12 international repute) and 13 national and business newspapers. The library made purchases in the field of business communication, computer science, economics, finance, human resource management, marketing and other related areas during the year to enhance the knowledge of the students by exposing them to a greater variety of books and periodicals on their respective subject. Apart from the print resources, teaching and research is also supported by accessing the large number of electronic resources i.e. Electronic Journals, Reports, and Case Studies through Delhi University Library Network which includes 02 Federated/Common Search Engines namely JCCC and Knimbus, 10 Reference & Citation Sources, 06 Bibliographic Sources, 02 Citation Analysis Resources namely, Scopus and Web of Science and other full text databases in the field of Management Studies and Computer Science etc. Moreover, the library has an Institutional membership of Developing Library Network and National Library and Information Services Infrastructure for Scholarly Content (N-LIST). Its E-Resources (E-journals & E-Books) are accessible through worldwide web using the web address <http://delnet.nic.in> & <http://nlist.inflibnet.ac.in/> respectively.

Most importantly, all our college library activities have been automated using the complete modern Web-based Open Source Solution i.e. KOHA, Internationally renowned Integrated Library Management System. We are one of the first few college libraries of University of Delhi which has shifted from from LIBTEK DOS based library system to KOHA Open Source Library Management Software. KOHA was introduced in May 2014. The basic objective of the KOHA is meeting the needs of its user base by providing the resources i.e. Books, Journals, Newspapers etc. With the use of KOHA software, Electronic resources i.e. Research Papers, Articles etc. of our college faculty members have been processed and put exclusively under the Research Publications category of interactive library catalogue which is part of the recently created Research Section of our college library.

Students, faculty and staff members can easily check the status of the library resources by accessing the Online Public Access Catalogue. This catalogue supports advanced search strategies displaying enhanced catalog using content from Amazon, Google, and Library Thing etc. through locally accessible library website.

Library has Hindi Literature books and a separate section of books for Economically Weaker Section Students.

Above all, in order to speed up the functioning of the library, All the books and other documents have been bar-coded. A software has been updated at the check desk for measuring the footfalls of the patrons.

### **Publications**

Barpa, R.K. (2016). Sustainable Marketing: Ecological Issues. In: R. Kumar, ed., Contemporary Issues in Marketing, 1st ed. New Delhi: Global Vision Publishing House, New Delhi. ISBN: 978-81-8220-775-2.

Bhatt, S. and Kesari, N. (2015). Leadership Dichotomy: Women are more Efficacious in Working with Diverse People. International Journal of Indian Psychology, 3(1), pp.78-85. ISSN 2348-5396.

Gupta, S., Khatri, B., Gupta, T. and Kumar, N. (2015). Modified partition integration method for community detection in multidimensional social networks. In: 11th International Conference on Natural Computation (ICNC). August 15-17, 2015. Zhangjiajie.

Kumar, A., Sehrawat, N.K., Rani, A. and Sharma, M. (2015). Cause and effects relationship between financial inclusion and economic growth: An empirical study. Research Arena, 2(10), pp.77-88. ISSN 2320-6263.

Nigam, N.K., Jain, S. and Arya, P. (2016). Perception of Maggi Noodles Amongst Delhi Residents: Before and After Controversy. IOSR Journal in Business and Management (IOSR-JBM), 18(2), pp.159-166. ISSN : 2278-487X. Impact Factor (2015): 1.458.

Sehrawat, N.K., Kumar, A., Rani, A. and Chaudhary, M. (2014). Corporate Sickness: Cash flow ratios as indicators. The Thematics Journal of Commerce and Management, 4(4), pp.56-68. ISSN 2231-4881. ISSN 2395-3748.

Sehrawat, N.K., Kumar, A., Rani, A. and Gupta, D. (2015). Impact of product diversification strategy on financial performance: An Empirical evaluation in the Indian context. Bulletin of Indian Society and Culture, 12(6), pp.82-96.

Sushmita, (2015). Mahatma Gandhi National Rural Employment Guarantee Act: A Review. International Journal of Arts, Humanities and Management, 1(7), pp.18-26. ISSN 2395-0692.

Sushmita, (2016). Conceptualising Smart City Concept with Sustainable Economic Development. International Journal of Trade & Global Business Perspectives, 5(1), pp.2154-2162. ISSN: 2319-9059 (print) ISSN: 2319-9067 (online), Impact Factor – 2015: 6.533, 2014: 5.912, 2013: 5.017, 2012: 3.946.

Sushmita, Rumman, M. and Bajaj, H. (2015). Decoding the Oil Price Crisis – 2014. International Journal of Research in Commerce Economics and Management, 5(9), pp.53-58. ISSN 2231-4245.

### **Conferences organised / attended**

The college organised Convergence'15: The Annual Leadership Summit, at Sardar Vallabhai Patel Chest Institute Auditorium on November 03-04, 2015. The theme of the event was 'India Unleashed – The Leap Forward'.

**Faculty Strength** Permanent: 35; Ad-hoc: 01

### **Placement Details**

Number of students getting successful placements	: 176
Number of Companies/Industries coming for campus recruitment	: 62
Number of repeat recruiters	: 22

### **Number and Name of Domestic / International (MoUs) signed with partners**

iSeed for promoting Entrepreneurship  
BSE for running the IFMFE (Integrated Financial Modelling and Financial Econometrics) course  
NSE for running the NCCMP (NSE Certified Capital Markets Professional) course

### **Student numbers under exchange programme**

- Inbound – 30 students from UK Universities visited the college under the aegis of the UK-India Education and the Research Initiative (UKIERI) initiative of University of Delhi
- Outbound – One student, utilising the travel grant from the Vice Chancellors Student Fund, attended the World Business Dialogue – 2016, held at University of Cologne, Germany from March 14-18, 2016.

### **Journals subscribed**

No. of International Journals (online + paperback): 12

No. of National Journals (online + paperback): 40

(More international and national journals are accessible via the extant Institutional membership of the Developing Library Network)

### **Other significant information**

We are poised to shift to a new multi-storied campus in Rohini, Delhi very soon. Spread over 5 acres, our new campus incorporates all the latest amenities and facilities including hostels, auditoriums, amphitheatre, sports facilities (indoor and outdoor), a yoga room, a large library area, staff accommodation, central air-conditioning and much more. Designed keeping current environmental concepts such as water harvesting, energy efficiency and environment friendly building standards in mind, this campus would herald a bold and exciting new phase for SSCBS.

The college has been selected by the Govt. of NCT of Delhi for setting up an Incubation Centre for promoting Entrepreneurship. It is one of the 6 Delhi based institutions and the only undergraduate college chosen. The college has been given an initial grant of Rs. 1.5 Crore by the Govt. The amount was handed over to the Principal by the Hon'ble Deputy Chief Minister of Delhi, Sh. Manish Sisodia at distribution ceremony in the Delhi Secretariat on 07 March, 2016. Students from the Entrepreneurship Society of the college (Yuva) also represented the college and

shared their experiences with their own start-ups. The college aims utilise these funds to promote entrepreneurship and entrepreneurial ventures among the students of the college and beyond in an inclusive and beneficial manner. In order to manage this, a Section 8 company is in the process of being established.

## SHIVAJI COLLEGE

### Major Activities and Achievements

Shivaji College has attained academic and overall excellence and was accredited with 'A' grade by National Assessment and Accreditation Council (NAAC), Bangalore. The college promotes overall academic development of students from all backgrounds. The college adopts several good practices, which include conferring 'Jijabai Awards' to felicitate Indian/International citizens who work towards upliftment of women in destitute, soft skill training for police constables, gender sensitization and create environmental awareness. The Woman Development Cell (WDC) annually publishes a book on woman issues and this year it was entitled "Utkarsha". Moreover, the college has worked on international platform by organizing conferences/seminars and several faculty members have been a part of International exchange programs. The college has 15 innovation projects of Delhi University and has signed an MoU with National Institute of Immunology (Science Setu) to inculcate scientific temperament in students. The college promotes overall development of the students through several cultural societies such as Vayam (Street Play), Shutterbug (Photography), Dictum (Debate), Reverb (Music), Footloose (Dance) and Bizarre (Fashion).

### Outstanding Honours / Distinctions

Dr. Amarjiva Locha has been appointed as President, SSEASR (South and Southeast Asian Association for the study of Culture and Religion) for the term 2015-2019 and as Executive Committee Member of the IAHR (International Association of History of Religion) under CIPSH, affiliated to the UNESCO for the term 2015-20. He has also been honoured with the Rashtriya Gaurav Award by the Indian Institute of Oriental Heritage, Kolkata on February 27, 2016 and elected visiting faculty in Research Institute of Languages and Cultures of Asia, Mahidol University, the Kingdom of Thailand

Dr. Jyoti Sharma has been appointed as visiting faculty at the University of Lausanne, Switzerland.

Dr. Surbhi Madan and Ms. Abha Vasal have been awarded Teaching Excellence Awards for Innovation.

Dr. Jayita Thakur and Dr. Aeshna Nigam have been awarded for the best Oral Presentation at International Conference on "Public Health: Issues, Challenges, Opportunities, Prevention, Awareness (2016)" organized by Daulat Ram College, University of Delhi, New Delhi, India.

Dr. Aravind Kumar Yadav have been honoured with 'Mahatma Jyotiba Fule' National Fellowship Award 2015 by Dalit Sahitya Akadami, Delhi.

### Research Projects

University Grants Commission,; Search of good rotation patterns on successive occasions and its applications, Rs. 10.5 lacs, 2015-2108 (3 Years).

University Innovation Project, SHC-309: Real Time Android Application for Travel convenience, Rs. 4 lacs. 2015-16 (1 Year).

University Innovation Project, SHC-312; L-asparaginase, an anti-tumor agent: Production, Characterization and Molecular Approaches, Rs. 6 lacs. 2015-16 (1 Year).

University Innovation Project, SHC-313; Comparative analysis of heavy metal toxicity and pesticide contamination in vegetables collected from local sites and organic stores in Delhi, Rs. 6 lacs. 2015-16 (1 Year).

University Innovation Project, SHC-315; Inventory and Prospect of Water Conservation in Western Rajasthan, Rs. 4.5 lacs, 2015-16 (1 Year).

### **Students with distinctions**

Ms. Babita, B.A. (H) Pol. Science, 3<sup>rd</sup> year, an equestrian, has won NCC Commendation card, one of the highest award, awarded by NCC for equestrian competitions. She also won gold medal in Dressage competition organized by Thailand equestrian Federation in Bangkok

Ms. Hema Joshi, B. Com. (Prog.) 1<sup>st</sup> year won the 1<sup>st</sup> position in the 26th Women Senior National AtyaPatya Championship.

Ms. Kamalpreet Kaur, student of B.Sc. (H) Zoology was awarded Science Meritorious Award (2014-2015)

Ms. Palak, student of B.Sc (H) Botany was awarded Science Meritorious Award (2014-2015)

Ms. Preeti, student of B.A. Hons. Sanskrit, won the 1<sup>st</sup> position in Third National Throwball Championship

### **Library Development**

Total budget : Rs. 20,23,588/-

Books added : 3,537

The college library is well equipped with softwares for the differently abled such as:

7 Angel Recording systems

2 Braille kits

286 Braille books

30 CDs of Braille literature

10 iPods

### **Publications**

Bamel, K. (2015). Nicotine promotes rooting in leaf explants of in vitro raised seedlings of tomato, *Lycopersicon esculentum* Miller var. Pusa Ruby. *International Immunopharmacology*, Vol. 29, 231-234.

Bharti, N., Tripathi, S. and Bhatla, S.C. (2015). Photomodulation of Strigolactone Biosynthesis and Accumulation During Sunflower Seedling Growth. *Plant Signaling & Behavior*, 10(8): e1049792

Bhattacharya, A., Gupta, A., Kaur, A. and Malik, D. (2015). Simultaneous Bioremediation of Phenol and Cr (VI) from Tannery waste water using bacterial consortium in the *International Journal of Applied Sciences and Biotechnology*. 3(1), 50-55

Gautam, K.K.S., Gupta, N. and Walia, A. (2015). A Survey of QoS for IEEE 802.22 WRAN Technologies. *International Journal for Research in Applied Science & Engineering Technology*. Vol. 3 (VIII).

Kulshreshtha, P., Tiwari, A., Priyanka, Joon, S., Sinha, S. and Bhatnagar, R. (2015). Investigation of A Panel of Monoclonal Antibodies and Polyclonal Sera Against Anthrax Toxins Resulted in Identification of An Anti-Lethal Factor Antibody With Disease-Enhancing Characteristics. *Molecular Immunology*. Vol. 68 (2), Part A, 185-193.

Malik, D., Thakur, J., Dua, A., Aggarwal, J. and Nijhawan, S. (2016). Lifestyle Disorders: A Case Study of Quetelet's Index and WHR in Undergraduate Students. Proceedings of International Conference on Public Health: Issues, Challenges, Opportunities, Prevention, Awareness. 232-236

Sharma, S. K., Kaur, N., Singh, J., Sankar, S., Gaur, S. S., Lee, S., Kim, D. Y., Singh, N. and Singh, H. (2015). Electrochemical Sensitive Determination of Nanomolar Guanine from ZnONanorods Coated on Platinum Electrode. Electroanalysis, 27, 2537–2543.

Singh, A. and Singh, R. (2015). Genotoxic Effects of Cadmium on Polytene Chromosomes of Sarcophagaruficornis (FAB.) (Sarcophagidae: Diptera) in International Journal of Development of Research. Vol. 5 (09), 5458-5462.

Singh, M., Gupta, D.N. and Suk, H. (2015). Efficient second- and third-harmonic radiation generation from relativistic laser plasma interactions. Physics of Plasmas, Vol. 22, pp. 063303.

Wardhan, R. (2015). Analysis of Toxic Compounds Found in Milk by Gc-Ms. International Research Journal of Natural and Applied Sciences, Vol. 2(5), 45-57

#### **Conferences organised / Papers presented**

International Seminar on Acculturation: Religion Society Language, February 17- 18, 2016; Funding agency support by Indian Council of Social Science Research (ICSSR), Indian Council for Cultural Relations (ICCR), Central Bank of India & University Grants Commission (UGC)

National Symposium on Lifestyle Disorders: Understanding the Molecular Mechanisms, January 28-29, 2016; Funding agency support by Indian Council of Medical Research (ICMR) & Department of Biotechnology, Govt. of India (DBT)

National Conference on Globalization, Economic Development and Sustainability, March 29, 2016; Funding agency support by University Grants Commission

National Seminar on Water and Air Quality in Urban Ecosystem, March 22, 2016; Funding agency support by Department of Environment, Delhi Government

National Seminar on “Woman, Crime and Law: Protection or Assertion?”, March 31, 2016

Thakur, J. ‘Lifestyle disorders: A Case Study of Quetelet's Index and WHR in undergraduate students’; January 15-16, 2016, Presented at International Conference on “Public Health: Issues, Challenges, Opportunities, Prevention, Awareness(Public Health: 2016)” organized by Daulat Ram College, University of Delhi, New Delhi, India.

Nigam, A. ‘Heavy metal contamination in vegetables: Source of nutrition or health hazard?’; January 15-16, 2016, Presented at International Conference on “Public Health: Issues, Challenges, Opportunities, Prevention, Awareness(Public Health: 2016)” organized by Daulat Ram College, University of Delhi, New Delhi, India.

Singh, S. and Srivastav, A. ‘Public Welfare: The Forensic Psychological Tools Employed Towards a Crime Free Society’; January 15-16, 2016, Presented at International Conference on “Public Health: Issues, Challenges, Opportunities, Prevention, Awareness (Public Health: 2016)” organized by Daulat Ram College, University of Delhi, New Delhi, India.

Kumar, A. ‘Issues, Challenges in Handling Localization in E-Governance: A Review’; 2016, Presented at

International Workshop Cum Seminar on “Role of Science and Technology for Sustainable Development with Focus on Make in India”

Chaudhary, J.K. ‘Critical analysis of multidimensional health and non-health issues and challenges faced by women in India: putting the best foot forward’; January 15-16, 2016, Presented at International Conference on “Public Health: Issues, Challenges, Opportunities, Prevention, Awareness(Public Health: 2016)” organized by Daulat Ram College, University of Delhi, New Delhi, India.

**Faculty Strength** Permanent : 116; Ad hoc : 65; Guest: 04

**Financial Allocation and Utilization (in Rs.)**

Sanctioned : Rs.3415.22 lacs  
Utilised : Rs. 3260.44 lacs (Subject to audit)

**Placement details**

Number of students getting successful placements : 56  
Number of Companies/Industries coming for campus recruitment : 5  
Number of repeat recruiters : 3

**Number and name of Domestic/International (MoUs) signed with partners**

**International**

The College has signed MoUs with academic institutions like Research Institute of Languages and Cultures of Asia, Mahidol University, the Kingdom of Thailand.

**National**

An MoU has been signed with The National Institute of Immunology, under the auspices of the Science Setu Program.

The College has signed MoU with Skill Tree Consulting Pvt. Ltd (Industry) for skill-based courses.

**Extension and Outreach work**

Number of camps organized in the surrounding areas : 7  
Number of people enrolled/covered in the camps : >2000  
Number of students who worked in the camps : 100  
Total number of hours dedicated to these camps : 60

**Journals subscribed**

Journals (Paperback): 2  
e-Journals through N-list: 6328

**Other significant information**

Shivaji College is environment conscious and maintains a campus which is vehicle free, smoke free and plastic free. It is the first college in the university to provide Accidental/Life Insurance Policy of Rs. 1 Lac per student at nominal premium. The college faculty published 42 papers in international and 24 papers in national peer reviewed journals, nine books and 19 chapters in edited books. Six faculty members are guiding Ph. D students. Shivaji College has the second highest number of innovation projects of which SHC-309 entitled ‘Real Time Android Application for Travel Convenience’ has been much appreciated. The team was invited to present their work on May 1, 2016, the Foundation Day of University of Delhi.



## **SHRI RAM COLLEGE OF COMMERCE**

### **Major Activities and Achievements**

The college celebrated its 90<sup>th</sup> Annual Day on 18<sup>th</sup> April, 2016. Hon'ble Union Minister for Power, Coal, New and Renewable Energy, Mr. Piyush Goyal was the chief guest for the function. Dr. R. P. Rustagi, Acting Principal, presented the annual Report. The prizes to students for their achievements in academics and extracurricular activities were given by the Chief Guest, Chairperson, G.B. and the Principal. The students' union organized its annual festival Crossroads in March 2016 in which Farhan Akhtar, Shankar Ehsann Loy and Palash Sen from Bollywood showcased their performance. Choreography & fashion show competitions, street dance, Nukkad Natak, rock music, western dance, debates, quizzes and many more similar events were organized by the students union and societies. Constitution Day, National Youth Day, Cleanliness Drive, Vocational Training Workshop, E-Pathshala were also organized by the college. In sports Kuhoo Garg in Badminton, Madhurima Shekhar and Yogesh Gautam in Chess represented India. The Sports department organized annual Festival of Youth Sports in February 2016.

### **Students with distinctions**

Pallak Kakkar	: Topper M. Com.
Ayush Mittal	: Topper PG Diploma in GBO
Iphshita Agarwal	: Topper B. Com. (Hons.)
Hardik Wadhawa	: Topper B.A. (Hons.) Eco

### **University Innovation Projects**

Ms. Astha Dewan, Dr. Esther N. Ngaihte, and Dr. Naveen Mittal have got University Innovation Project "Assessing the viability of contract farming for small and marginal farmers".

Dr. Santosh Kumar, Ms. Anuradha Aggarwal, and Mr. Ashwani Kumar have got University Innovation Project "Evaluation of upcoming technologies (Internet of Things, Internet of Services & Industry 4.0) for their suitability in the Indian Marketplace."

### **Library Development**

Library has digitized its collection through LSmart-RFID System and currently using web-based integrated library management system, Libsys 7.0 software. An Archive unit has also been started to preserve primary as well as secondary source of information.

The Library has also acquired PROWESS and ECONOMIC OUTLOOK DATABASE (Financial performance) and URKUND Plagiarism detection software.

### **Publications**

Deepashree. (2015). Macro Economics. Delhi, Delhi: Mayur Paperbacks.

Deepashree. (2015). Indian Economy. Delhi, Delhi: Mayur Paperbacks.

Deepashree. (2015). Principles of Micro Economics, Delhi, Delhi: Mayur Paperbacks.

Kumar, Alok. (2015). Basic Corporate Accounting, Delhi, Delhi: Galgotia Publishing Company.

Kumar, Anil. (2015). Industrial Law. Delhi, Delhi: International Book House.

Kumar, Alok. (2015). Corporate Accounting, Delhi, Delhi: Galgotia Publishing Company.

Kumar, Raj (2015). Corporate Accounting, Delhi, Delhi: Corporate Law Adviser.

Thukral, J. K. (2015). Fundamentals of Business Statistics, Delhi.

Tiwari, H. N. & Jain, H.C. (2015). Computer Fundament & Essential Tools. Delhi, Delhi: International Book House.

### **Conferences organised / attended**

#### Youth Conference

Theme: But the Victor Carries on

Details: The Conference held during September 15, 2015 that witnessed the presence of Shri Rajnath Singh, Hon'ble Home Minister, Ms. Shikha Sharma, CEO, Axis Bank, Shri Jotiraditya Scindia, Kapil Dev, Nawazuddin Siddiqui, Rahul Kanwal.

#### Business Conclave

Theme: Biz in the Air

Details: The Programme held from February 3 – 5, 2016 wherein speakers like Shri Nitin Gadkari, Smt. Nirmala Sitharaman and Shri Jayant Sinha from Union Cabinet, Mr. Rajat Sharma & Rajdeep Sardesai from media, Sunil Bharti Mittal, Adi Godrej, GMR Rao, and D Shivkumar from industry, Rishi Kapoor from Bollywood and Suresh Raina, Cricketer spoke in the Conclave.

#### Finance Summit

Theme: Changing Global Financial Scenario

Details: The Programme held on February 26, 2016 in which the CEOs & Senior Managers from the Corporate enlightened the students.

#### Market Summit

Theme: Innovative Marketing Philosophies

Details: The Programme held on April 02, 2016 in which the CEOs, Heads & Senior Managers from the Corporate presented their views.

#### HR Summit

Theme: The future of H.R. : A Radically different Proposition

Details: The Programme held on August 22, 2015 in which the CEOs & HR Heads from the Corporate spoke at the programme.

**Faculty Strength** Permanent: 63; Ad Hoc: 63; Guest: 02

### **Financial Allocation and Utilisation (in Rs.)**

Budget sanctioned : 2,087.76 Lakh

Utilized : 1,878.46 Lakh

### **Placement Details**

Number of students getting successful placements : 348

Number of Companies/Industries coming for campus recruitment : 82

Number of repeat recruits : 36

### **Extension and Outreach Work**

- (a) Number of camps organized in the surrounding areas : 4 Camps in Delhi  
Khair Village, Mitraon Village, Janakpuri, Kudsia Ghat
- (b) Number of people enrolled/covered in the camps : 1050 people belonging to different communities in  
and around Delhi.
- (c) Number of students who worked in the camps : 102 Students
- Total number of hours dedicated to these camps : 160 hours by all students in total.

### **Students under exchange programme**

SRCC organized about six inbound collaborative programmes at its campus in which total 126 students participated from Foreign Universities & SRCC.

Journals subscribed:

Number of international journals subscribed : 12  
(online + paper back version)

Number of National Journals subscribed : 22  
(online + paper back version)

### **Other significant information**

Mrityunjay Sharma, Student of B. Com. (Hons.) III year, played piano for 121 hours and broke the existing Guinness World Record of playing piano for 104 hours. He started his performance on October 11, 2015 at 10:30 a.m. in the College Auditorium. Guinness Book of Records has also acknowledged his achievement by issuing a certificate.

## **SHYAM LAL COLLEGE**

### **Outstanding Honours / Distinctions**

During the year SLC organized its first International Conference on the subject, "Sustainable Business Models: Innovative Strategies and Practices". In addition 3 national conferences were organized by departments of History, Chemistry and Economics. SLC's Mens' Hockey Team became the champion of Inter College Hockey Tournament, University of Delhi. The College organized virtual classes in which college students interacted with experts from Japan and Australia. Cheshta Chaudhary, a first year student of SLC, won a Silver Medal in 3M Spring Board Diving event in Inter Varsity Aquatic Championship 2015, apart from winning Gold Medals at Inter College Aquatic Championship; also selected by Delhi State and Delhi University to represent their teams in various tournaments. The Placement Cell of the College invited reputed companies to conduct placement drives, in which about 185 III year students were selected, about 70% for final placement, with remaining students shortlisted for final rounds of selection to be conducted later. The companies conducting drives include Royal Bank of Scotland, ICICI Prudential Life Insurance Company, Bajaj Capital, RockSport, etc.

### **Students with distinctions**

Ms. Cheshta Chaudhary , B.Com (Prog.) I Yr. won Silver Medal in 3M Spring Board Diving event in All India Varsity Aquatic Championship 2015-16.

Ms. Khushboo, B.Com (H) III Yr. won Gold medal in Delhi State Aquatic Championship 3M Spring Board Diving event 2015-2016.

Mr. Jitendra, B.A. (Prog.) I Yr. won Gold Medal in 5000M in Delhi State Athletic Championship 2015-2016.

Mr. Sarabjeet Singh, M.A. (Hindi) I Yr. won Gold Medal in 4x100M relay in Senior National Para Athletic Championship 2015-2016.

Mr. Sachin Giri , B.Sc (Gen.) II Yr. selected for Delhi State baseball Team who won Gold Medal in Senior National baseball Championship 2015-2016.

### **Library Development**

Total Budget : 614,815  
No. of Books added : 1683  
Journals Subscribed : 31 periodicals and Magazines  
Internet facilities upgraded and provided to users

### **Conferences Organised / Attended**

The First International Conference on “Sustainable Business Models: Innovative Strategies and Practices” was organized by Department of Commerce, SLC, with ICSSR BSE, Central Bank, Delhi Metro Support on 16<sup>th</sup> and 17<sup>th</sup> March, 2016 at India International Centre, New Delhi.

The Department of Chemistry, SLC, organized the UGC-sponsored National Conference on the theme: ”Environment & Harmonious Development” (NCC 2016) on 7<sup>th</sup> and 8<sup>th</sup> April, 2016 at India International Centre, New Delhi.

Department of Economics, SLC, organized the UGC-sponsored National Conference on “Trade Negotiations under W.T.O.: Issues before Developing World” on 4<sup>th</sup> and 5<sup>th</sup> April, 2016.

Department of History of the College organized the UGC-sponsored National Conference on “Caste and Gender: Historical Perspectives” on 19<sup>th</sup> and 20<sup>th</sup> February, 2016.

**Faculty Strength** Permanent: 69; Ad-hoc: 61

### **Financial Allocation and Utilisation (in Rs.)**

Grant sanction in (Rs.) : 26,13,16,760/-  
Utilized : 26,13,16,760/-

### **Placement Details**

Number of students getting successful placements : 185 students till June 10, 2016, 70% students finally placed, 30% shortlisted for final round

Number of Companies/Industries coming for campus recruitment : 10

Number of repeat recruiters: No previous recruitment details available

### **Extension and Outreach Work**

Number of NCC camps organized in the surrounding areas. : 07

Number of people enrolled/covered in the camps : 25

Number of students who worked in the camps : 25

Total number of hours dedicated to these camps : 600

### **Other significant information**

SLC has been participating with full vigour in national programmes such as Skill India and observing important national occasions. A Skill Development Committee has been set up in the College and it has organized activities for this purpose ranging from one day workshops to one month programmes for computer literacy. The College has also been organizing programmes for women’s development and gender sensitization.

On 24<sup>th</sup> November, 2015, the College celebrated India’s Constitution Day. On April 13, 2016, the College celebrated Baba Sahib Dr. Ambedkar’s 125<sup>th</sup> birth anniversary. Interactive lectures by experts were organized to mark the occasions.

## **SHYAM LAL COLLEGE (EVENING)**

### **Major Activities and Achievements**

The college organized an National Conference on “Role and Contribution of Renewable Energy in Climate Change Mitigation” under convenorship of Dr. S.P. Sharma at Indian Institute of Public Administration (IIPA), New Delhi on February 11-12, 2016. Dr. J. C. Sharma, IES, Economic Advisor, Ministry of New and Renewable Energy, New Delhi, was the Chief Guest. The college has successfully published the second issue of ‘ASPIRARE’ an International Journal of Commerce and Management (ISSN No. 2394-0484) and e-Journal (ISSN No.2394-6601(e)) during September 2015. The Journal got indexed with leading indexing institutions like Scholar Steer, World Cat, ESJI, LIVIVO and DAJ. Dr. Pravin Kumar, Principal is the Editor-in-Chief and Dr. Aditya P. Tripathi is the Managing Editor, Editorial Board of this Journal. The Department of Commerce of the College organized a ‘Placement Week’ from February 17-24, 2016 in which a total of 123 students were placed with reputed employers like ICICI Prudential, Tata Westside, HDB Finance, Genpact, Highline etc. In a series of lectures and workshops, Dr. Sanjeev Kumar Sharma, Director Outreach, School of Skill Development & Entrepreneurship, Ansal University, Gurgaon, Haryana delivered a special lecture on ‘Career Opportunities in Real Estate’ on April 6, 2016.

### **Students with distinctions**

Ms. Divya Wadhwa, BAP III Year	-	86.67%
Ms. Deepika Handa, BAP III Year	-	83.46%
Mr. Manish Aggarwal, BCP I Year	-	80.25%
Ms. Preeti Aggarwal, ECH III Year	-	79.04%
Ms. Neha Aggarwal, BAP III Year	-	78.88%
Ms. Preeti Aggarwal, ECH III Year	-	79.04%
Mr. Pramod Kandpal, BCH I Year	-	77.22%
Ms. Shreya Gupta, BCH II Year	-	76.17%
Mr. Anil Kumar, BCH III Year	-	76.04%
Mr. Prabhat Dixit, ECH I Year	-	75.86%

### **Library Development**

The College Library on the ground floor as well as upper stacks areas is fully air-conditioned. Our Library has 48,179 books and subscribes to 11 Hindi and English Newspapers, 19 Magazines and Journals at present. Open access facilities to students and staff are available. The library computer lab with 36 computers is also available to students for accessing the online available Delhi University library resources. Xerox facility is also available to staff/students members. The library is computerized with bar coded books and membership cards.

### **Conferences organised / attended**

Dr. Harish Khanna delivered keynote in the National Seminar on Hindi aur Marathi Bhasha Asmita Ka Sawal organized by SNTD College of Commerce and Arts held on January 2016.

Dr. Harish Khanna delivered keynote in the National Seminar on Crisis in Higher Education organized by SNTD College of Commerce and Arts held on March 2016.

Dr. Amit Singh presented a paper “Havaon Ka Vidroh Mein Aadivasi Swar” in a National Seminar on “Samajik-Aarthik Vikas Ki Avdharna or Aadivasi Samaj” organized by Daulat Ram College in collaboration with ICSSR on 9-10 March, 2016.

Dr. Ashok Kumar Yadav presented a paper in the National Seminar on “Union Budget 2016-17 Agricultural Development” organized by Vidyant Hindu P.G. College University of Lucknow on 10<sup>th</sup> February 2016.

Dr. Ajay Gupta presented a paper on “Role of Infrastructure in Economic Development of India” in the National Seminar organized by Satyawati College, University of Delhi on 30<sup>th</sup> March 2016.

Mr. Rajiv Ranjan Singh conducted a week long workshop on “ICT Usages in Teaching” at Centre for Professional Development in Higher Education (CPDHE) a UGC Academic Staff college of University of Delhi as Co-coordinator in September 2015.

Mr. Rajiv Ranjan Singh delivered a lecture on “Role of Internet in ICT and must-know Online ICT Tools” by Department of Chemistry, Hindu College (University of Delhi) in October 2015.

Dr. Sandeep Kumar Yadav presented a paper "Voices of Dissent: Structuralist Feminist Reading of the Poetry of Recent Indian Poets" in a national seminar organised by SESOMU Girls College, Sri Dungargarh, Bikaner, Rajasthan on 13-14 Jan. 2016.

Dr. Sandeep Kumar Yadav presented a paper "Dr Ambedkar's Vision and Tribal Literature" in a national seminar on Development in India: Issues, Challenges and Strategies organised by KMG PG College, G B Nagar, UP on 27 Feb. 2016.

Mr. Manoj Kumar presented a paper on “Dilli Rickshaw Chalak, Samvedhanik Adhikar, Avam Manvadhikar: Niyayik Paripreshye” in a National Seminar titled “Question of Human Rights: Indian Society” held on 30-31 March 2016 in Motilal Nehru College (Morning).

**Faculty Strength** Permanent: 50; Ad-hoc: 30; Guest : 16

**Financial Allocation and Utilisation** (in Rs.)

Grant Sanctioned: 131894760.00

Utilised: 131894760.00

**Placement Details**

Number of students getting successful placements: 123

Number of Companies/Industries coming for campus recruitment: 11

Number of repeat recruiters NIL

**Journals subscribed** 04

## **SHYAMA PRASAD MUKHERJI COLLEGE (FOR WOMEN)**

**Major Activities and Achievements**

It was a very well-rounded year at SPM College with activities and achievements in multiple areas of collegiate life. In academic sphere, we had two teachers receive Ph.D. degree and one was a co-guide for a Ph.D. dissertation. Two books and thirty-four articles by teachers got published in journals of repute. Three Innovation projects are underway in the college. One National Seminar, fourteen workshops, and nearly fifty co-curricular activities including lectures were organized by various departments. We kept ourselves busy in other areas of collegiate life as well. Our Hockey and Kho-Kho teams are Inter-College champions and Handball, Volleyball, Softball and Kabbadi teams got positions in various matches. Our outreach program under NSS organized several activities for the community around the college in which about 1840 hours were spent by college students. The college organized and hosted a workshop for 500 police personnel of West Delhi on Gender Sensitization. We conducted a census and

identification of all the trees on our campus, and our gardens received ten prizes in the Annual Delhi University Flower Show.

### **Outstanding Honours / Distinctions**

Dr Mamta Rajput, Department of Education, was awarded Ph.D. Degrees on the subject of “Understanding of Pedagogical and content knowledge among science teachers” in May 2015.

Dr. Kavita Gaur was awarded a Ph.D. degree on “Understanding the Household: Norms and Everyday Lives in Textual Traditions (c. 3<sup>rd</sup> century BCE to 5<sup>th</sup> century CE),” from Jawahar Lal Nehru University in July 2015.

### **Students with distinctions**

Ms Aditi Aggarwal secured IIIrd position in Delhi University in B.Sc(H) Computer Science , IIIrd Year with 96% marks.

Ms Sonia secured IIIrd position in Delhi University in B.EL Ed, Ist Year with 76% marks.

Ms Rajni secured Ist Position in college in B.Sc (H) Computer Science , IInd year with 95% marks.

Ms Varsha Aggarwal secured Ist Position in college in B.Com (H), IInd year with 92.5% marks.

Ms Radhika Budakoli and Ms Hemanshi Popli both secured Ist Position in the college in Applied Psychology (H), III year with 81.6% marks.

### **Research Projects**

Dr. Veena Kapur and Ms. Shubha Sinha have got University Innovation Projects (SPM 301): Modi’s Make in India: Swadeshi or Videshi, Amount : Rs 350000/-

Dr. Kulbir Kaur, Dr. Garima, and Sh. Virender Pratap Yadav have got University Innovation Project (SPM 302): Aggression and Behavior Modification: A Socio Psychological Study of Juveniles; Amount: Rs 350000/-

Dr. Pooja Vashisth and Dr. Baljeet Kaur have got University Innovation project (SPM 303): Pubic Pooling System for Women Safety; Amount: Rs 400000/-

### **Library Development**

The College Library is fully computerized with a database of around 73,237 books. A computerized catalogue is in use for easy and quick access to the resources in the library. The library has a very rich collection of books on various disciplines. It includes rare collection of reference books, general reading books, and latest fictions in English and Hindi. The Library has a subscription of around 80 periodicals which includes Journals, periodicals and magazines for general reading. The Information Centre in the Library has 25 computers with internet facility for accessing research material. The availability of Wi-Fi has made internet accessible to students and faculty members on their laptops. Individual passwords are provided to all members for free access to more than 4000 journals, e-databases available through on UGC-INFONET. The Library has a unique Braille books collection. Recorders and laptops with special software are issued to differently-baled students for the entire duration of their course.

Total Budget	Rs. 12,62,500.00
Number of Books added	1408
Numbers of Journals added	08
Total Number of Books	73, 237

### **Publications**

Bhagat, R. (2015). *Forging Pakistan. Region and Politics: Muslim League and the Movement for Pakistan 1940-46*. New Delhi, Delhi: Anamika Publishers.

Bhatia, S. (2015). Does reservation alter the mind-set? A research Enquiry vis-a-vis Fear of Failure, Locus of Control and Personal Effectiveness among Undergraduate

Gera, J. (2015). Identifying Significant Features to Improve Crowd Funded Projects' Success. International Conference on Innovations in Computer Science & Engineering, Vol 413, 211-218.

Ghose, S. (2015). Life-style Changes for Boosting Brain Power and Enhancing Cognitive Abilities. MERI Journal of Education, 10(2), 1-13.

Girl Students across Disciplines. *Indian Journal of Community Psychology (IJCP)*, 11(2), 326-337.

Marwaha, E.B. (2015). Prevalence of Eating Disorder among Indian Weightlifters. *Indian Journal of Psychology and Education (IJPE)*, Vol 5, 43-47.

Mathur, C. (2015). *Mass Media in India: Raj to Swaraj*. New Delhi, Delhi: Shivalik Prakashan.

Mirza, A. (2015). Debating Globalization. *International Journal of Society and Humanities*, Vol 7, 112-118.

Thareja, R. (2015). Information Technology and its Applications in Business. New Delhi, Delhi: Oxford University Press.

Thareja, R. (2015). Object Oriented Programming with C++. New Delhi, Delhi: Oxford University Press.

Vashisth, P. (2015). Argumentation Enabled Interest-Based Personalized Recommender System. *Journal of Experimental and Theoretical Artificial Intelligence (JETAI)*, 27(2), 199–226.

### **Conferences Organised / Attended**

Department of Education, SPM College organized a very well-attended two-day National Seminar on “Emerging Trends in Education: New Paradigms” on 10-11 March 2016.

Seminar on “Emerging Trends and Technologies” organized by the Department of Computer Science on 22<sup>nd</sup> February, 2016.

Annual Lecture delivered by Dr. Ila Patnaik, Professor at National Institute of Public Finance and Policy and formerly the Principal Economic Advisor to the Government of India on the topic “India: Growth and Prospects ” on 23<sup>rd</sup> February 2016.

Roundtable on “Learner Centered Instruction: Classroom Practices, including Use of Technology in Higher Education at the Undergraduate Level” organized on 8<sup>th</sup> April, 2016 led by Dr. Anita Charles, Fulbright Fellow and Director of Teacher Education at Bates College, Lewiston, Maine, USA.

Two Panel Discussions on the topic “Democracy and Dissent” and on “Freedom of Speech, Dissent and the Question of Nationalism” organized on 16<sup>th</sup> March, 2016.

Lecture on “African American Literature and Politics in the Period of the Civil Rights Movement” by Dr. Nita N Kumar (Principal, Officiating) as part of the Black History Month at the American Centre Library, New Delhi on February 18, 2016.



Dr. Sudipta Ghose, Department of Education, presented a paper titled “Overcoming Barriers to Inclusive Education in a Developing Society: Forging New Avenues” in the 14<sup>th</sup> Biennial Conference of International Association of Special Education held in the University of Lower Silesia, Poland, 23 June 2015.

Dr. Veena Kapur, Department of Education, presented a paper titled “Teacher Education in the age of Technology” in a Conference on Facilitating, Fostering and Harnessing Innovation to Meet Key Challenges of the 21<sup>st</sup> Century, at Harvard University in September, 2015.

Ms. Neeta Arora, Department of Education, presented a paper “The Matrix of Education, Power and Empowerment: Where do we stand?” in the 7<sup>th</sup> Asian Conference on Education organized by the International Academic Forum, at Kobe, Japan in October, 2015.

Dr. Amit Kumar Sharma presented a paper “Vishnupuran mein Bhautiksrishitivimarsha” in a National Seminar on Pauranik Srisrishti Vijnan, organized by Indian Institute for Puran Studies, New Delhi, November 2015;

Dr. Amit Kumar Sharma presented a paper “Vishishtadwaitasiddhantanusar Jadajeevshvarvimarsha” in Sanshaytaducchadavada Sangoshthi, at Indian Archaeology Society, New Delhi, December 2015; and

Dr. Amit Kumar Sharma presented a paper “Shrota evam Darshak ki Drishti mein Sanskritvarta” in the 5<sup>th</sup> National Sanskrit Journalists’ Conference, organized by Bharatiya Sanskrit Patrakar Sangh, in December, 2015.

**Faculty Strength** Permanent: 91; Ad-Hoc: 44

**Financial Allocation and Utilisation** (in Rs.)

Sanctioned	:	38,06,93,000/-
Additional Grant from Delhi Govt.	:	20,00,000/-
Utilised	:	100%

**Placement Details**

- (a) 69 students of B.Com(H) and Eco(H) got placed in GENPACT.  
4 student of B.Com(H) got placed in DICCI SME Portal.  
Almost all the students of B.Ed and B.EL.Ed. got placed in prestigious public schools like Presedium, Heritage and others.
- (b) No of Companies/ Industries coming for campus recruitment: 4
- (c) No of Repeat recruiters: 1 (GENPACT).

**Number and Name of Domestic / International (MoUs) signed with partners**

With Human Rights Defense International, New Delhi to work together for the “betterment of Human Rights through special highlighted areas related to women issues.”

**Extension and Outreach Work**

A Gender Sensitization program involving lectures and workshops for nearly 500 police personnel in West Delhi was organized by the college faculty Ms. Renu Mehta and Dr. Shubha Parmar on the college premises.

NSS Work:

Number of the camps organized in the surrounding area 23

Programmes organized in surrounding area like:  
Madi pur, (college students taught poor children)  
Peeragadhi (cloth distribution on road side to labour class, teaching poor children)  
Nagloi (students taught poor children)  
Janak puri (cloth distribution on road side to labour class)  
Vikas puri (cloth distribution on road side to labour class)  
Bawana (Students staying near Bawana taught poor children)  
Sultanpuri, Mangolpuri (students taught poor children)  
Raghuvir Nagar (cleanliness drive organised by the College on 22nd October, 2015)

Number of people covered in the camps : Around 1000

Number of students who worked in the camp : Around 700

Total numbers of hours dedicated to these camps

Around 5 hours for teaching for each student those participated in this program  $5 \times 120 = 600$

Around 4 hours for collection of the clothes  $4 \times 70 = 280$

Around 4 hours for distribution of the cloths in slums  $4 \times 100 = 400$

Around 4 hour for cleanliness  $4 \times 140 = 560$

### **Journals subscribed**

Total journals and Periodicals : 50 J + 30 P = 80

### **Other significant information**

#### **SPORTS**

The Department of Sports has had a busy season of matches and events this year.

The College team secured first position in the Inter-college Hockey Tournament organized by Mrs. Manjeet Madan on the College grounds. The team secured second position in the Delhi Hockey Championship, first position in the Delhi Women Hockey Festival Championship as well as in the Delhi State Hockey Championship, third position in the Delhi Olympic Hockey Championship and fourth position in the Delhi Hockey League.

The Kho-Kho team of the college has been winning the first positions since the last five years. Currently, the team is Inter-college Champion.

The Kabaddi team of the College won second prize in the Inter-college .Kabaddi Tournament organized by Dr. O.P. Chaudhary on the College grounds.

The College team got second position in the Delhi Women Championship.

The Softball team of the College got second position in the Softball Inter-college Tournament.

The baseball team of College got third position in the Inter-college Tournament.

The College Cross Country team bagged third prize in the Inter-college Cross Country Competition in which thirty-one colleges participated.

The College Volleyball team got first position in the Bharti Cup Tournament.

A number of non-sports students learn yoga and aerobics throughout the year and perform on the Sports Day of the College. The Department organized 15<sup>th</sup> Delhi State Arms Wrestling and Delhi State Yoga Competition on 26<sup>th</sup> and 27<sup>th</sup> March, 2016.

#### **NCC**

The National Cadet Corps (NCC) unit of the SPM College, with Dr. Pooja Vashisth and Dr. Chandrakanta Mathur as coordinators, has participated in a number of events organized at various places in Delhi and other parts of the country.

99 cadets participated in the International Yoga Day.

An Advanced Leadership Camp was organized. 2 cadets, JUO Neetu Dala and SGT Anchal Gupta participated in the camp.

A Para Basic Camp was conducted under Agra Cantonment with paratroopers. Cadet Anu won the Best Cadet Award in the camp.

Cadet CPL Rajni Dabbas successfully completed the Thal Sainik Camp.

In the closing ceremony of the National Games, 50 cadets participated. 6. In a Special National Integration Camp held in Kakinada, Andhra Pradesh, 6 cadets were selected from the College to represent Delhi Directorate.

The Army Attachment Camp was held in Meerut. 3 cadets were selected.

A combined Annual Training camp Naval CATC was held.

SGT Priya Anand attended the Rock Climbing training Camp and won three gold medals.

3 cadets were selected to perform a paratrooper slithering in the Prime Minister rally on 28th January, 2016.

#### Students' Council and Cultural event

Students' Council celebrated its Annual Cultural Festival 'SRIJAN' 2016 with great vigor, gusto and style on 3rd & 4th March 2016 on its premises. A large number of competitions were organised and the list includes Mono-acting, Rangoli, Photography, Ad Mad Show, Solo singing, Street play, Treasure Hunt, Tattoo Designing, Face painting, Newspaper Dress Designing, Solo Dance, Group Dance, Turncoat Debate, Fashion Show, Quiz and Film Quiz. All the events saw participation in large numbers from various colleges of Delhi.

#### Our Gardens Our Pride

Our College bagged many prizes in the 58<sup>th</sup> Annual Flower Show of the Delhi University held at the Mughal Garden of the North Campus. Under the Category A, the Committee won three 3<sup>rd</sup> Prizes for the Best College Garden, Greenery and Cleanliness of College and Best Herbal Garden. In the Cut Flower Competition our College won four first prizes for single dahlia and two second prizes for mathiola and centaurea.

## SRI AUROBINDO COLLEGE

### Major Activities and Achievements

Besides its busy academic life, there were other multifarious activities systematically undertaken throughout the bygone year to keep the college life well-rounded for its students. As always, seminars and workshops were an annual feature across departments for the year 2015-16. Each department conducted its inter-college festival and went on excursion trips. College's three-day Annual Cultural Festival "Mehak-2016" was organized from January 28 – 30, 2016 with deputy C.M., Sh Manish Sisodia, as the chief guest. The Annual sports meet of the college from April 6-8, 2016 saw active participation in various competitions.

In the bygone academic year, the cultural society of the college was proactively involved in various co-curricular activities with its nine societies. This included Sage (Debating Society) that won the best team trophy in YMCA and Dayal Singh College & Prof. B.M. Johri Rolling shield organized by University of Delhi. Crunk, Dance Society, won first position in IITM & UCMS, IInd position in LSR & IIIrd position in AIIMS. Internal complaints committee organized a legal literacy workshop. Along with this, a two-day medical health checkup and a blood donation camp was organized in association with AIIMS. College also celebrated 3<sup>rd</sup> Annual NCC fest "Hausla 2016". All in all, sundry activities kept the college life vibrant and buzzing.

### Students with distinctions

Neetu (Physical Science 85.10)

Nikhil Kumar (Phy.Sc. 83.60)

Himanshu Singhal (B.Com.(P) 81.24)

Shailly Srivastava (B.Com (P) 80.20)

Varsha Sehrawat (B.Com(H) 80%)

### **Research Projects**

Dr. Amit Jha has got UGC Major Project “Oral Tradition Indian History; Amount of Grant: Rs.912100/-

Dr. Manju M. Gupta has got UGC Major Project “Monitoring Arbuscular Mycorrhizal Fungal Biodiversity in Northern India with Computational Databases and Platforms”; Amount of Grant: Rs.15,60,000/-

Dr. Aprajita Chauhan has got University Innovation Project “Waste to Wealth: Water Hyacinth – A New Green Fuel Source”; Amount of Grant: Rs.5,50,000/-

Dr. Sudhir Pratap Singh has got University Innovation Project “Hindi ki vibhinan vidhayon ke do pramokh sahiyakaron ke jeevan par audharit virt chitra”; Amount of Grant: Rs.4,00,000/-

Dr. Ashwani Kumar has got University Innovation Project “Design & Development of Dual Band, Triple-Band, Penta-Band & Hexa Band Bandstop Filters For Wireless Local Area Network”; Amount of Grant: Rs.5,50,000/-

### **Library Development**

2170 no. of books added to the Library during the session.

### **Conferences organised /attended**

Department of Chemistry, in collaboration with CSTT, MHRD, organised a two day National Seminar on “Recent Trends in Technical Terminology in Science”

Department of Chemistry, in collaboration with ICSSR organised a two day National Seminar on “Emerging Economics and Challenges to sustainability towards developing nations”

Department of Commerce organised two day UGC sponsored national seminar on “Changing Business and Economic Environment in India: Vision 2020”

Department of Hindi organised two day national seminar on “Vaishvikaran aur Bhakti Kavya”

**Faculty Strength** Permanent: 64; Ad hoc: 66

### **Financial Allocation and Utilisation (in Rs.)**

Grant sanction in Rs.231805760/- (By UGC) + Rs.1250000/- (By Delhi Govt.)

Utilised in Rs. 214427735/-

### **Placement Details**

Number of students getting successful placements : 187

Number of Companies/Industries coming for campus recruitment : 12

Number of repeat recruiters : 05

### **Extension and Outreach Work**

No. of camps organized in the surrounding areas: A blood donation camp in association with AIIMS was organized by the college NSS Unit. Also No Tobacco Drive organized.

No. people enrolled/covered-45

No. of students who worked in the camps - 45

**Journals subscribed**

Foreign Trade Review  
 Indian Quarterly  
 Indian Economic & Social History Review  
 Indian Historical Review  
 Phytomorphology  
 Sajosps  
 Chartered Accountant

**SRI AUROBINDO COLLEGE (EVENING)****Major Activities and Achievements**

The College was an academic Collaborator and Co-sponsor of the XVII<sup>th</sup> International Conference entitled "Make in India: The Road Ahead", held at India Habitat Centre, Lodi Road, New Delhi on January 3-4, 2016. Eminent Scholars from various countries viz., USA, UK, Iran, South Africa, Nigeria and Indonesia participated in the Conference and presented research papers. On 8-9 October 2015, fifty two students and faculty members of the Department of Applied Psychology participated in the 2nd International Psychology Conference and 4th Indian Psychological Science Congress on "Psychological Well Being: The Concerns and Development' organized by Department of Psychology, P. G. Government College, Chandigarh. At these two conferences 22 students presented their research papers. Fourteen students from the Department of Applied Psychology presented research papers at an International Conference held on 1-2 March, 2016 organized by the Department of Psychology, Jamia Millia Islamia, New Delhi.

**Outstanding Honours / Distinctions**

Dr. Sumati Varma, Associate Professor, Department of Commerce appointed to the Executive Board of Project X-Culture -an International Collaborative Experiential Project of the Florida Technical University. She was Mentor in Project X-Culture -an international project across 80 universities with 2500 students and associated faculty as participants.

**Students with distinctions**

Shruti Dua BA (H) Applied Physics 3rd Year	82.7%
Mayank Sharma BA (H) Applied Physics 3rd Year	79.8%
Shankar Singh Chauhan B.Com. (H) 3rd Year	78.1%
Nisha Kumari B.Com. (H) 2nd Year	78%
Sunil Bhargava B.Com. (H) 1 Year	78%

**Research Projects**

Dr. Mahesh Kumar Darolia, Mr. Pragyendu, and Dr. Vivek Chaudhar have got University Innovation Project "Psycho Social Determinants of Sporting Culture in India".

**Publications**

Bag, Susanta Kumar. ( 2 0 1 5 ). *Colonial State, Agrarian Transition and Popular Protest in Orissa 1921-1947*. New Delhi: Primus.

Kumar, Prashant. (2016). Corporate Governance: A Broader Perspective. *IOSR Journal of Economics and Finance*. 6(2). 01-08.

Verma, Sumati.(2015).Motives as Locational Determinants - A Study of FDI between India and Latin America and the Caribbean. *Transnational Corporations Review*, 7(3).

### **Conferences organised / attended**

Department of Commerce, in collaboration with DSPSR, organised the Second Annual International Conference 'Make in India: The Road Ahead" on 3-4 anuary, 2016 at India Habitat Centre, New Delhi.

Department of Applied Psychology, in collaboration with National Association of Psychological Sciences (NAPS), organized a two-day National Seminar on "Social Harmony and Well Being: Issues and Challenges" on 18-19 March, 2016.

**Faculty Strength** Permanent: 43; Ad-hoc: 19

### **Financial Allocation and Utilisation (in Rs.)**

Grant sanction in Rs.	10,90,65,000/-
Utilized in Rs.	10,75,28,000/-

### **Extension and Outreach Work**

52 students of B.A. (Hons.) Applied Psychology and faculty members from the Department visited Badshahpur Village, a small hamlet in the state of Haryana, with the aim of creating awareness among community members and sensitizing students towards nature and dynamics of burning social issues like domestic violence, health and sanitation, child rights and child trafficking. Using ecological model of Community Psychology, the students interviewed the villagers to understand the stress factors and suggest mechanism for dealing with them.

### **Journals subscribed**

International Journals:

- i. Harvard Business Review South Asia (Paperback)
- ii. Economist (Paperback)
- iii. Decision (Online + Paperback)

Number of National journals subscribed :

Economic and Political Weekly (Paperback)

Psychology and Developing Societies (Online + Paperback)

### **Other significant information**

In a academic session 2016-17, Department of Commerce will be bringing out the first issue of its annual research journal(with ISSN number) *Vanijya Vichar*.

## **SRI GURU GOBIND SINGH COLLEGE OF COMMERCE**

### **Major Activities and Achievements**

The college has several academic societies for the respective departments and courses and these societies provides ample opportunities in enhancing their skills in convening and managing different events under the mentorship of respective conveners. These societies and clubs have been broadly classified into Academics, Creativity in Arts, Student's groups, Diversity and inclusions, Community and public engagement and Career, Skill and professional development. All the details of activities have been showcased in the year book. This year book contains the summary of all academic and cultural achievements of our students and faculty. This year is precious to us because

we got ranked among top commerce colleges of India and also got awarded Grade “A” by NAAC. We have strengthened our infrastructure and made education more students centric. Several scholarships have also been offered to the students to encourage them and taking care of their financial needs.

### **Outstanding Honours / Distinctions**

Our Principal Dr. Jatinder Bir Singh was offered honorary Adjunct Professorship at Business School, Beijing Normal University for 2015-2020. He also was nominated as member of SEBI sub-committee on commodity derivatives.

### **Students with distinctions**

Prateek is pursuing B.Tech Computer Science from the college and is currently in his third year. He was invited to join the ASEAN Elite Forum 2015 on 20-22 November 2015 in Kuala Lumpur as country Ambassador of India shortlisting Startups from India to be a part of the venture outreach in Elite Forum and ASEAN Entrepreneurship Summit, Kuala Lumpur, Malaysia. He organized the conference along with the GLI workforce at UN ESCAP & SW University and selected 4 candidates from India, 3 of which were from our college.

Piyush Gandhi student of B.A. Hons. (Economics) second year has represented India in Japan as a part of Youth Exchange Programme – KIZUNA. He is also selected for Global Finals of Case Study Competition to be held in Belgium in April 2016.

Utkarsh Jain was awarded A+ at ‘Rio+22 UNSE4ALL Program’. It was a national level effort in form of a short term co-curricular program for students in synergy with United Nations General Assembly.

### **Research Projects**

Dr. Simmar Preet ( Principal Investigator), Ms. Vandana Kalra (Co- Investigator), and Ms. Supriya Chopra( Co-Investigator) have got University Innovation Project SGGSCC-301: “Innovations Toward A Sustainable World & Impact of The Air Quality Crisis - A Comparative Analysis of Delhi, Beijing, Los Angeles & London”.

Dr. Kawal Gill (Principal Investigator), Dr. Rekha Sharma (Co-Investigator), and Dr. Renu Gupta (Co-Investigator) have got University Innovation Project SGGSCC-302: “Empowering Differently-abled Students through e-Learning at Higher Education”.

Mr Ajay Chaturvedi (Mentor), Meenu Gupta (Principal Investigator), Ms. Aradhana Nanda (Co-Investigator), and Rasleen Kaur (Co-Investigator) have got SGGSCC-303: “A Study of CSR and Social Business as Panacea for Social Problems”.

Dr. Harpreet Kaur (Principal Investigator), Dr. J. B. Singh (Co-Investigator), and Ms. Urleen Kaur (Co-Investigator) have got SGGSCC-304: “Food Insecurity Issues in Children and Women in North India with special reference to the National Food Security Act, 2013”

### **Library Development**

About 1482 Text/Reference books with an outlay of Rs. 4.90 lakh were added to the library. The library subscribes to about 45 journals with subscription of Rs. 44,000/-. The library has access to e-resources of UGC INFLIBNET through University of Delhi Intranet. The college spent about Rs. 2.3 lakh on library development.

### **Publications**

Dodrajka, Sangeeta. (2015). Celebrity Endorsement: Effectiveness on Brand Loyalty. *International Journal of Advanced Research in Management and Social Sciences*. 4(12).

Kaur, Satvinder. (2015). Corporate Disclosure Practices in Selected Indian Companies. *International Journal of Management*. 3(10).

Gupta Renu (2015). *Banking Market and the Run Up Towards Liberalization*". *International Journal of Trade and Global Business Perspectives*. 4(3).

Kaur, Harpreet, Aparna Sajeev and Simrit Kaur. (2015). Cereal and Fuel Price Interactions: Econometric Evidence from India. *Journal of Business Thought*, 6, 14-37.

### **Conferences organised**

3<sup>rd</sup> International Conference on "Booming Service Sector from Achievements to growth prospects", 04-05 February 2016.

**Faculty Strength** Permanent: 45; Ad-Hoc: 25

### **Financial Allocation and Utilisation (in Rs.)**

Grant Sanctioned : 1370.00 lakh  
Utilised : 1365.00 lakh

### **Placement Details**

a. No. of students getting successful placements : 130  
b. No. of Companies coming for campus recruitments : 14  
c. No. of Repeat Recruiters : 06

### **Extension and Outreach Work**

Number of camps organized in surrounding areas : 06  
No. of People covered : 300  
No. of students who worked : 70  
Total No. of hours dedicated : 100 hrs.

### **Student numbers under exchange programme**

a. Undergraduate inbound : 02

### **Journals subscribed**

a. No. of International journals subscribed : 02  
b. No. of National journals subscribed : 28

## **SRI GURU NANAK DEV KHALSA COLLEGE**

### **Major Activities and Achievements**

The academic year 2015-16 has been exceptionally good on all the fronts, be it academics, sports or co-curricular activities. If academically students excelled in getting more first divisions than the previous years, then in sports too students won many laurels at both university, inter-university and national levels and created several meet records. In co-curricular activities also the college made its mark by participating in inter-college competitions and winning many prizes all around. Other achievements of the college include its commitment to improve infrastructural facilities with primary focus on environment through green initiative. As a result the College now has:

Fully operational lift.

A fully operational Rain Water Harvesting unit.

An operational 1KW. Non-grid solar power plant.

An independent doctor/medical room along with a counsellor room.



Six computer labs with Genuine Microsoft windows 10 and MS Office 13.  
 Fully computerized library has started green initiative by recycling waste-paper.  
 Each and every classroom fitted with audio-visuals aids capable of providing multi-media enabled learning environment.

### **Outstanding Honours / Distinctions**

Shri Daya Shanker Sharma has been awarded Ph.D. on “Corporate Social Responsibility – Accounting and Disclosure Practices in India,” by Punjabi University, Patiala.

Meena Singh has been awarded Ph.D. on “Regional trading Blocs and India’s trade with NAFTA countries” from Punjabi University, Patiala.

### **Students with distinctions**

Megha Kushwaha got First position in BBE (89%) in University of Delhi  
 Rahul won third positing in Athletics (Men) in SAF Games  
 Western Dance Society ‘Magus’ won seven first prizes in various inter-college Competitions. It has also claimed the honor of performing at the 10<sup>th</sup> Media Excellence Awards 2016 organized by Media Federation of India at FICCI auditorium.  
 The Bhangra Team of the college has won six first prizes in inter-college and inter University Competitions. Additionally it has also performed in front of U.S. Ambassador at Roosevelt House.  
 The Debating Society of the College “Vedang” has also won twelve first prizes in competitions all over Delhi.

### **Research Projects**

University Innovation Projects:

#### **UNDERSTANDING THE ATTITUDE OF COLLEGE-STUDENTS TOWARDS RELIGION AND POLITICS**

Teachers: Dr Deepak Sharma, Dr Davinder Kaur Chawla and Dr Vinayneet Kaur Mentor: Professor V. Upadhyaya from Indian Institute of Technology, Delhi.

No. of Students: Ten

#### **SGND 301: AWARENESS LEVEL AMONG PERSONS WITH DISABILITIES (PWDs) REGARDING GOVERNMENT PROGRAMS AND CONCESSIONS: A Study of PWDs in Delhi Slums**

Teachers: Dr. P. K. Mehta, Dr. Man Mohan Kaur and Dr. Meena Singh

Mentor: Dr. Vandana Mishra

No. of Students: Ten

#### **SGND 302: RESPONSE OF YOUTH TOWARDS SWADESHI INITIATIVES IN INDEPENDENT INDIA: IDENTIFYING CHALLENGES**

Teachers: Dr Deepak Sharma, Dr Gurmohinder Singh and Dr Vinayneet Kaur

Mentor: Mr. Kamal Jeet from Swadeshi Jagaran Manch.

No. of Students: Ten

### **Library Development**

General Books	: 1600
SAF (Student Aid Fund)	: 129
BBE (Bachelor of Business Economics)	: 28
Hindi Journalism	: 152
Journals subscribed in current year	: 17
Magazines	: 35
News Papers	: 21

## **Publications**

Bairwa, Ghanshyam. (2015). "Inter-State Disparities in Public Expenditure on Primary Education in India." *Journal of Business Management and Information Systems* 2(1).

Jain, Priya, (2016). *The Concept of 'Exile' in the Fiction of Conrad*. Delhi: Northern Book Centre.

Kundra, Balbir, (2015). *Hindi Bhaasha Aur Sampreshan*. Delhi: Deepshikha Prakashan.

Mehta, P.K. & Meena Singh, 2016 *Textbook on Micro Economics*, Taxmann Publications (P) Ltd., Delhi.

Mehta P.K & Meena Singh, 2015, "India's Trade with NAFTA Countries: Growth and Composition," in *Man and Development*, Vol. XXXVII, No.2, June.

## **Conferences Organised / Papers Presented**

A ten day UGC sponsored Workshop on the topic "Research Methodology in Social Sciences" was organized by the Research Committee from March 21 to March 31, 2016 at S.G.N.D. Khalsa College Dev Nagar.

Annual Convention of the college on the theme "Startup India- The Road Ahead" was organized by Udyamita (Entrepreneurship Society) in collaboration with *Sofica Society for Financial Literacy and Consumer Awareness* on 17<sup>th</sup> March 2016 at Patel Chest Auditorium, University of Delhi.

A two day UGC sponsored National Conference on the topic "Exegesis of Space in Literature and Culture" was organized by English Department on February 9-10, 2016 at S.G.N.D. Khalsa College Dev Nagar.

A one day National Seminar sponsored by UGC on the topic "Make in India" was organized by Economics Department on 30<sup>th</sup> March, 2016 at S.G.N.D. Khalsa College Dev Nagar.

A two day National Seminar sponsored by UGC on "Sanskriti, Media or Upbhoktavaad," was organized by the Hindi Department 25<sup>th</sup> & 26<sup>th</sup> of February, 2016 at S.G.N.D. Khalsa College Dev Nagar.

A one day O.E.R. workshop to acquaint the teachers with Open Educational Resources on web was organized in the college on September 17, 2016.

With its focus on Faculty development, the college organized a two day workshop on 04-05 May 2015 on the theme "Approaches, Processes and Tools of Education" at Bristol Hotel, Gurgaon.

Abhishek Sharma presented a paper "Beyond Interpreted Confines: Spaces of Miracle in *Mahabharata's* 'The Dicing'" at UGC sponsored National Seminar on "Exegesis of Space in Literature and Culture" held in on February 2016 in S.G.N.D. Khalsa College.

Bhagwant Kaur presented a paper as main speaker titled "European Sources on Baba Banda Singh Bahadur" on January 9, 2016 at International Centre of Sikh Studies North Delhi; chaired a session at international conference titled "Empowering Women Empowering Humanity" on 11 & 12 December 2015, Women's Centre Punjabi University Patiala.

Guntasha Kaur presented a paper titled "Gender and Space in Sikh Journals" at UGC sponsored national seminar held in on February 2016 in S.G.N.D. Khalsa College; Presented a paper titled "Punjabi Language and Modern

Sikh Identity (1900-1920)” held on September 7-9 2015 at National Conference in The Department of English, University of Delhi.

Jasmine Kaur presented a paper titled “Make in India-A Dream Come True or a Distant Reality” held in on March 30, 2015 in S.G.N.D. Khalsa College.

Jasvinder Kaur Bindra presented a paper titled “Har Vaar Nava Morh Murthdi Zindgi” March 30, 2015 at Punjabi Sahit Sabha.

Man Mohan Kaur chaired a session at international conference titled “Empowering Women Empowering Humanity” on 11 & 12 December 2015, Women’s Centre Punjabi University Patiala.

Manmeet Kaur presented a paper titled “An Evaluation of Corporate Governance Index and Performance of Banks in India” on December 16, 2015 at IIM Calcutta.

Paramjeet Kaur presented paper “Dr. Ganda Singh Rachit Pustak-Baba Banda Singh Bahadur: Punarvichar” on January 9, 2016 at International Centre of Sikh Studies North Delhi; Presented paper titled “Guru Granth Sahib: Samajh ate Vatawarnik Drishti” in October 2015 at Bhai Veer Singh Sahit Sadan New Delhi.

Sukhwindar Kaur and Manmeet Kaur presented a joint paper titled “Start Ups – The Awakening India in National Seminar on Make in India” in S.G.N.D. Khalsa College on March30,2016.

**Faculty Strength** Permanent Faculty: 57; Ad-hoc Faculty: 26

**Financial Allocation and Utilisation** (in Rs.)

Non-planned expenditure is approx. Rs. 2014.00 Lacs.

**Placement Details**

Number of students getting successful placement: 86

Number of companies/industries coming for campus recruitment: 7

Number of repeat recruiters: 4

**Extension and Outreach Work**

Number of camps organized in the surrounding areas: 4

Number of people enrolled in the campus: 165

Number of students who worked in the camps: 57

**Journals subscribed** 04

*Sanchar Madhyam*

*Communicator*

*Indian Literature*

*Foreign Trade Review*

## **SRI GURU TEGH BAHADUR KHALSA COLLEGE**

**Major Activities and Achievements**

The college is gearing up for a new phase in its growth and the new session. We are making significant steps in infrastructure expansion, upgrading our science laboratories, sports facilities and the library resources. Besides this,

the teachers are constantly engaged in inculcating new pedagogical skills that are in tune with the advancement in Global E-Learning processes using ICT tools. We also look forward to introducing new courses in computer science, forensic science and management studies along with add on courses such as adventure sports. The faculty has been tirelessly working on personality development of students besides imparting quality education. The college strives to face the challenges posed by the changing syllabi and the ever changing job prospects. Besides these activities the routine functions and activities like orientation day, founder's day, annual day and annual fest were organised with great enthusiasm. Other significant activity was the renovation of the botanical garden where many medicinal and exotic plants adorn the space. A prestigious "Teaching Learning Centre" for three subjects namely, Chemistry, Commerce and Economics under the Pandit Madan Mohan Malviya National Mission on Teachers and Training of the MHRD, Govt. of India has been recently allocated to SGTB Khalsa College. The centre shall soon start functioning as Guru Angad Dev Teaching Learning Centre.

### **Outstanding Honours / Distinctions**

We are proud to share that three faculty members – Dr. Smita Mishra, Dr. Nachiketa Singh and Mr. Dharmendra Kumar were conferred 'LADLI MEDIA AND ADVERTISEMENT AWARD 2014-2015' on 17<sup>th</sup> March 2016, for contributing to gender sensitivity.

In the year 2015-16 three faculty members completed their PhD; Dr. Akhilesh Kumar and Dr. Madhavi Zutshi Department of English, and Dr. Harshdeep Kaur, Department of Commerce.

Dr. Smita Mishra's name appears in Limca Book of Records for being Nation's first women editor of bilingual monthly sports newspaper by editing 'Sports Kreedaa' Newspaper.

Dr. Komal Kamra PI Innovation Project "Development of a user friendly android based mobile app for providing awareness and information on spinal cord insult and injuries" was awarded Best Innovative Idea and Teaching Excellence Award for Innovation and Best Display in Digital World.

Centre for e-learning is successfully reaching the completion in developing digital content for post-graduation under the e-PG Pathshala programme of the UGC in Chemistry, Commerce, Forensic Science, Economics, Psychology and Business Economics. These subjects have now been selected for taking their e-content to next stage for development of MOOCs (Massive Open Online Courses), a new project which is likely to be launched soon.

### **Research Projects**

Dr. Komal Kamra is working on DST project entitled 'Characterization of free living ciliated protists as indicators of pollution and their impact on micro-ecology of river Yamuna flowing through National Capital Region (NCR) of Delhi, India.

Dr. Venugopalan T. is working on ICSSR funded project entitled 'Sustainable tourism development in India - A case study of Goa tourism'.

Detection of fingerprints on despoiled crime scenes - Delhi University funded innovation project, Dr. GS Sodhi. CSIR funded 'Signature of new Physics at present and future colliders'. Dr. Mamta.

### **Library Development**

A fully automated, computerized and well equipped library is emerging as a valuable resource. Keeping abreast with changing syllabi, the Library organized an Information Literacy Program on awareness of existing e-Resources & Searching Techniques in collaboration with University of Delhi on January 12, 2016 for the staff and students. Apart from print journals, library has started subscribing N-LIST (National Library and Information Services Infrastructure for Scholarly Contents) program of INFLIBNET. This has provided an access to a large number of e-resources to the students and staff throughout the year 24X7. Some new magazines and journals added to the collection are: Current Science, Indian Journal of Traditional Knowledge, Resonance and Indian Journal of Marketing. Some of the magazines are: Aajkal, Alochana, Hans and Organizer.

## Publications

Aggarwal, V. (2015). 'Pichale dino'. Vani Prakashan, Delhi.

Aggarwal, V. (2015). Ed. 'Premchand ki Sampoorna Kahaniyan' Vani Prakashan.

Dhali, R. (2015). "Tracing the process of Brahmanisation of a folk cult during 19th and 20th century in Rajasthan: A case study of Goga" in proceedings of the Indian History Congress, 75th session, published by Indian History Congress, Aligarh. 83-789.

Kaur, S. (2015). A commentary 'Neurospora: A Model Organism'. In: The Botanica, Volume 64 & 65, 17 – 22.

Kumar, S., Kamra, K., Bharti, D., La Terza, A., Sehgal, N., Warren, A., & Sapra, G.R. (2015). Morphology, morphogenesis, and molecular phylogeny of *Sterkiellatetracirrata* n. sp. (Ciliophora, Oxytrichidae), from the Silent Valley National Park, India. *Europ. J. Protistol.*, 51, 86-97.

Pahwa, K.K. (2016). 'Punjabi Sahit Paripekh'. Shilalekh Prakashan, Delhi.

Raina, H.S., Rawal, V., Singh, S., Daimei, G., Shakarad, M., Rajagopal, R. (2015). Elimination of *Arsenophonus* and decrease in the bacterial symbionts diversity by antibiotic treatment leads to increase in fitness of whitefly, *Bemisia tabaci* Infection. *Genetics and Evolution*. 32:224-230. Doi :<http://dx.doi.org/10.1016/j.meegid.2015.03.022>.

Singh, H. (2015). Ed. 'Gadar Kav Goonjan', Manpreet Prakashan, Delhi-31.

Singh H. (2015). Ed. 'Banni Guru Tegh Bahadur', HK Prakashan, Delhi-31.

Singh, J., Kamra, K.(2015). Morphology and molecular phylogeny of an Indian population of *Cyrtohymenacitrina* (Ciliophora, Hypotricha), including remarks on ontogenesis of *Urosomoida*-*Notohymena*-*Cyrtohymenagroup*. *Europ J Protistol.* 51, 280.

Wadhwa, J.K. (2016). 'An Empirical analysis of the finances of the Indian Union Government'. In: *International Journal in Management and Social Sciences*. 4(1).257-266.

## Conferences organised / attended

National Symposium and Workshop sponsored by UGC on Crime Scene Management was held on March 3&4 2016.

Committee for the Prevention of Sexual Harassment organized a workshop on Cyber Security in the College on 13th October 2015 was to discuss the security issues of working women. The workshop was held by All India Women's Education Fund Association (AIWEFA) in collaboration with Google, India.

The country's first seminar on Adventure Sports for Youth and Nation-Building was organized in SGTB Khalsa College in collaboration with IMF. This event was held on the Golden Jubilee of India's First successful summit of Mount Everest on May 20, 1965.

**FacultyStrength** Permanent faculty: 99 ; Temporary faculty: 01; Ad hoc faculty: 44

## Financial Allocation and Utilisation (in Rs.)

Grant sanctioned : 267,386,532/-

Utilised : 268,386,532/-

## Patents Filed/Granted

### Placement Details

Number of students getting successful placements : 70+  
Number of companies coming for recruitment : 20  
Number of repeat recruiters : 02

### Extension and Outreach Work

Number of camps organized in the surrounding areas: 02  
(Breast/Oral cancer Awareness with AIIMS School Project Guidance).

### Journals subscribed

- Number of international journals subscribed, (online and paperback version): Two magazines: *The Economist* and *Time*
- Number of national journals subscribed (online and paperback): 12 journals, 16 magazines + e resources through N-list.

### Other significant information

The college is also providing teaching facilities to 2500 students in distance learning in Commerce stream.

Women's Self-Defence Workshop by CISF: In view of the rising crimes against women, the college in association with the Central Indian Security Force (C.I.S.F.) and Delhi Police held a 15 day camp on Women's Safety, inaugurated on 20th September 2015.

Remembering Indo-Pak War 1965: A symposium was organized to celebrate 50 years of Peace and Conflict on 21st September 2015, and commemorate war veterans as well as common people who acted as a second line of defence when plan of hundreds of para troopers was made unsuccessful by Punjabi peasants working on fields.

Confero: The Model United Nation was organized the conference on 2nd and 3rd April 2016 and it was the largest MUN in the north campus with about 300 delegates participating from all over India.

## SRI VENKATESWARA COLLEGE

### Major Activities and Achievements

The academic year 2015-16 has been another rewarding year for Sri Venkateswara College. The college has been Accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade. It has continued its trend of excelling in academic as well as co-curricular endeavors. Faculty as well as students have been consistently contributing to the exaltation of the college by making significant contributions in the field of academics, research, literature, publications, and content development. The college has entered into several collaborations with international as well as national universities in the field of research and students exchange programs.

### Outstanding Honours / Distinctions

Accreditation by NAAC with grade 'A' has been a major mark in the academic opulence of the college. The College has been associated with Department of Biotechnology (DBT), GoI, and Stanford University, USA and conducted a workshop on 'Foldscope'. The Bioinformatics Centre (BIC) of the college has been awarded First position in the DBT-BTIS net Incentive Award (BIF category) for having the maximum number of publications in journals of high repute.

Dr. Vandana Joshi, Department of History, has been selected as Alexander von Humboldt Fellow, Institute of Cultural Study, Humboldt University, Berlin, Germany. She is also a Visiting Professor at The Institute of Asian and African Studies, Humboldt University, Berlin, Germany.

Dr. E. Muralidhara Rao, Department of Telugu has received the prestigious 'Manmatha Ugadi Puraskaram' for Excellence in Telugu literature. Dr. Rao has also been conferred upon the 'Award for Excellence' for his significant contributions in Telugu literature.

Dr. Vartika Mathur, Department of Zoology was awarded "Young scientist of the year award 2015" in the field of Chemical Ecology in 2<sup>nd</sup> International Conference on Environment and Ecology organized by the International Foundation of Environment and Ecology held on 7<sup>th</sup> March, 2016, at Bharathiar University, Coimbatore, Tamil Nadu, India.

### **Research Projects**

Research has been an integral part of the philosophy of Sri Venkateswara College. The college has increased the stature of undergraduate research by getting into several international and national collaborations with world renowned institutes and universities. Faculty members have bagged prestigious fellowships as well as research projects under various International exchange programs with countries such as Belarus, Russia and Netherlands.

Under the *DST India-Belarus Exchange Programme* (2015) in association with the Belarusian State University, Dr. N. Latha's project titled "Contributions to Bioinformatics and Nanomedicine: Computational, Biochemical and Biophysical Evaluation of New Small Peptide and Fatty Acid Derivatives as well as Their Self assembled Nano Structures as Molecular Weapons against Infectious Diseases" was approved for joint implementation. This has been undertaken under the "India Belarus Joint Science & Technology" - International Bilateral Cooperation under the DST, Govt. of India in 2015.

Under the *Indo-Russian Project* by the DST, Govt. of India, New Delhi, Dr. Anant Pandey has been granted a research grant for the research proposal entitled "Synthesis of Nanocrystalline Thermoluminescent Phosphors for their Application in Dosimetry of Heavy Charged Particles and Electromagnetic Radiation".

At national level, college has successfully bagged five Star Innovation Projects worth Rs. 1 crore 20 lakhs under the Cluster Innovation Centre, University of Delhi. Departments of Biochemistry, Botany and Physics have sanctioned these projects whose first phase grant is Rs. 77 lakhs.

In addition to this following faculty members have bagged individual research projects by funding agencies such as DBT and DST:

Dr. Vandana Malhotra has been awarded a DBT Major Project Entitled "High-Throughput substrate profiling of *M. tuberculosis* Protein Kinase K" worth Rs. 44.00Lakh.

Dr. K. Chandramani Singh has been awarded the DST Extra Mural Research Funding worth Rs. 28.44 lakhs for the project entitled "Ferroelectric and Piezoelectric Properties of Modified Barium Titanate Ceramics"

Dr. Vartika Mathur has been awarded the Research Training Fellowship for Developing Country Scientists (RTF-DCS) for the topic entitled "Effect of biofertilizers on the constitutive and induced responses of tomato (*Lycopersicon esculentum*)" by NAMS&T Centre-DST worth Rs. 2,70,000.

Last year, the college bagged 14 Innovation Research Projects from the University of Delhi, wherein faculty members from various departments have been successfully conducting interdisciplinary as well as trans-disciplinary research. Topics taken up for research under these projects ranges from biodiversity, nanotechnology and genomics to music, historical astronomy and endangered languages in India.

## Library Development

The central library has over one lakh twenty thousand book titles and subscribes to 65 Journals/periodicals and 14 Newspapers in four languages. It also has more than 250 educational CDs and about 20 sets of encyclopedias. The library of our college is fully automated with open access system that gives students and faculty hassle free access to e-Resources (e-Journals, e-Books & online databases by UGC-Info Net Digital Library Consortium & N-LIST). Students and faculty have an access to e-resources available on DU network in the College. The College has an access to a number of online databases namely JSTOR, PROJECT MUSE, PROWESS, PUBMED, INDIASTAT, SCIENCE DIRECT, PROQUEST etc.

## Publications

Research and innovation is regularly translated into relevant literature in the form of research papers, review articles, books, book chapters and newspaper columns. In the academic year 2015-16, faculty members of Sri Venkateswara College have published 52 research papers in international and national journals of high repute. In addition to this the faculty members also have 8 books, 10 book chapters and several articles in newspapers and magazines in different languages. Interestingly, students who are engaged in research are active contributors to research papers published in journals as well as conferences. Faculty members have also participated and delivered virtual lectures under the UGC lecture series.

## Publications

Jyoti Talwar, R.K. Mohanty and Swarn Singh. (2015). A New Spline In Compression Approximation For One Space Dimensional Quasilinear Parabolic Equations On A Variable Mesh, *Applied Mathematics and Computation*, 260, 82-96 Elsevier Science Inc (USA), SCI.

Kumar, Krishna. (2015). Global imbalances since the financial crisis: effect on emerging market economies. *World affairs. The Journal of International Issues*, Vol: 19.

Meeta J Advani, Malini Rajagopalan and P Hemalatha Reddy (2014). Calmodulin-like protein from M.tuberculosis H37Rv is required during infection. *Sci Rep*. 4:6861 doi. 10.1038/srep06861. ISSN: 2045-2322. Impact factor: 5.578.

Rajsekar, K, N Narayanasamy, M Kuhar, S Vaishya, R Shanmuganathan, N Devaraj (2015). Role Of Oxidative Stress In Inducing Apoptosis, Necrosis Or Senescence In Intervertebral Disc Degeneration. *International Journal of Multidisciplinary Educational Research*, 4(1):114-133.

Singh A K, Rathore S, Tang Y, Goldfarb N E, Dunn B M, Rajendran V, Ghosh P C, Latha N, Singh B K and Rathi B. (2015). Hydroxyethylamine Based Phthalimides As New Class of Plasmeptin Hits: Design, Synthesis and Antimalarial Evaluation. *Plos ONE* (Accepted).

Shailaja Thakur. (2015). Understanding Tribal Entrepreneurship. Impact on formal and informal institutions. Case study of Mizo entrepreneurs. *Man and Society*, ICSSR.

Vivekananthan, S. (2015). Aavikal Bhuthankal Peikal: Varalaarum Vazhipaadum (A Study of Spirits, Demons and Devils), Chennai: Kaavya Publication.

## Conferences Organised / Attended

Sri Venkateswara College was proudly associated with DBT and Stanford University, USA in organizing the workshop for 'Foldscope: The origami Microscope', designed and developed by Prof. Manu Prakash, Stanford



University. The workshop was one of its kinds and was highly appreciated by school as well as college students, scientist and faculty members. Hands on experience on the foldscope, as well as training on its assembly as well as usage kept the participants hooked to it for hours. Viewing samples such as hair, leaves, insects etc. in the origami based microscope gave the participants an altogether new experience (December 2015).

The college has been selected to be a part of the renowned DBT Science- Setu Program that intends to bridge the gap between undergraduate colleges and research institutes, to promote vertical interaction as well as mobility of students. Under this, a MoU has been signed with the prestigious National Institute of Immunology (NII), New Delhi. An interesting Interactive Session was organized wherein eminent scientists from NII Dr. Vinay K. Nandicoori, Dr Praful Tailor and Dr. A. K. Banerjee talked to students on issues such as HIV, AIDS, viruses etc. (August 2015)

National Symposium on Mathematical and Computational Biology funded by the National Network for Mathematical & Computational Biology (NNMCB) in March 2015.

A Symposium in Proteomics was organized in March 2015, wherein participants interacted with experts on various classical as well as applied topics on proteomics.

#### **Patents Filed/Granted**

Dr. R. P. Singh, Department of Chemistry has been granted a patent on “Aryl alkyl ethers and method there of” Indian Patent no. 2406/DEL/ 2015.

#### **Exchange Programmes**

SVC has been a party to the MoU signed with the United Kingdom and has been successfully hosting the students exchange program called UKIERI (UK-India Education Research Initiative) for the last four years. In 2015 the program was re-christened as Generation –UK India Study India Program 2015 was again highly appreciated as the college translated the spirit of the exchange into a real experience for the foreign participants. Forty students from various British universities visited us and gained an insight into classroom teaching and laboratory practice in Indian Universities. They were also exposed to Indian culture and which was wholeheartedly appreciated by them. Our students interacted with their British counterparts (buddies) and discussed various educational, social, political and cultural issues with them.

Sadbhavana: Faculty members and students of our college have participated in the Sadbhavana trip in collaboration with the Indian Army to villages in terror-stricken areas of Jammu and Kashmir. In this, now an annual engagement, our students through interactions with their counterparts in the rural terror-stricken areas of the state foster a spirit of confidence in them and also help them to connect to the tenor of mainstream India. This excursion has been a great success and has also sensitized our students towards different people facing various social challenges.

TERI: The College has been a part of the The Energy and Resource Institute sponsored ‘Tetrapack Youth Initiative Program’ and various orientation programs and lectures are being attended by the students and teachers involved.

‘Taking Science to School’: As a part of Community Outreach Program, teachers of Sri Venkateswara College visited Government Senior Secondary School in Bighan, Sonapat, Haryana, and demonstrate some basic experiments to Secondary students.

## ST. STEPHEN'S COLLEGE

### Major Activities and Achievements

Education in St. Stephen's College has always been marked by an emphasis on character-building, deepening of relationships among all constituents of the college, and fostering national consciousness and the spirit of public service. This legacy is continued with an understanding that every great tradition needs to be safeguarded, renewed and re-articulated within an ever-changing milieu. Dr (Revd) Valsan Thampu retired as Principal on 29<sup>th</sup> February, 2016. Prof John Varghese took charge as the 13<sup>th</sup> Principal of the college from 1<sup>st</sup> March, 2016. During the current academic year college received the highest A grade from NAAC. During the academic year 2015-16, the college continued with its tradition of providing its students one of the best academic and extracurricular environment in the country. The college celebrated Founder's Day, Old Students Meet, College Day Celebrations and Dismissal Service. It has a vast array of active Societies, Clubs and Cells like the Debating Society, the Shakespeare Society, the Students Union Society, the Social Service League etc. and they have undertaken commendable initiatives and have rare achievements to their credit. Two notable initiatives by the college are.

- (a) Citizenship and Cultural Richness Course
- (b) Academic Conclave

The College also has a number of active research centres. St Stephen's Centre for Theoretical Physics gives students an opportunity to get started on advanced research projects in theoretical physics. Center for Gender, Culture and Social Processes, organises certificate courses and workshops on themes of culture and social sciences. The Translation Studies Center, regularly organises seminars and workshops. St. Stephen's Centre for Economic Studies (SCES) gives add-on courses in different topics in Economics. It also organises student research projects.

### Outstanding Honours / Distinctions

Dr. C B Jha of the Department of Sanskrit was awarded the honour of Vidwad Bhushan in an Investiture Ceremony organised by Akhil Bharatiya Vidwat Parishat , Kashi at Varanasi. The award was conferred by the Hon'ble Home Minister Mr. Raj Nath Singh.

Dr. C B Jha of the Department of Sanskrit was also received the award of Sanskrit Bhushan from by the Hon'ble Minister for Food and Supplies in the Govt. of Jharkhand at Jamshedpur.

Dr. Rakhi Thareja, Dr. Veena Beri, and students Eva Lance and Nidhi sharma received First Prize for the Paper presented in the form of a Poster entitled "Computational Studies of Indian Cassava Mosaic Virus (ICMV) and docking of ICMV with Gold and Silver nanoparticles" at the *National Conference on Nanoscience-Opportunities and Challenges (Feb-2016)*.

Dr. Renish Geevarghese Abraham of the Department of English was awarded PhD in English Studies by the University of Delhi in December 2015.

Dr. Prashanto Chatterjee of the Department of Mathematics was awarded PhD degree in Mathematics by the University of Delhi in May 2015.

### Research Projects

Dr. Satish Kumar, Development of photoreversible chelators for heavy metal ions. DST Fast track Young Scientist, Grant: 25 Lac.

Dr. Vibha Sharma and Dr. Ekta Kundra Arora, *Synthesis, Characterization and Applications of Novel Heterocyclic Compounds of Transition Metal Ions*, UGC Major Project, Grant: Rs 9,05,500/-

Dr. Vibha Sharma, Dr. Ekta Kundra Arora, Dr. Annu Malhotra and Ms. Sonali Batra: *Investigation of Physico-chemical and Nanoscale properties of materials and Study of Mathematics of dilution with respect to Homoeopathy*. University of Delhi Innovation Project.

Dr. Rakhi Tareja, Dr. Rashmi Sachdeva, and Dr. Veena Beri: *Insilico and Invitro studies of economically important Begomoviruses in Indian Fruits and Vegetables*, University of Delhi Innovation Project.

### **Library Development**

The Library spent Rs. 15,62,237/- on the purchase of books during the year 2015-16 and Total 1316 books were added to the Library collection. The Library subscribes to 10 International Journals and 09 National Journals. The College Library updated to the latest version of Troodon Software i.e. Troodon 5.5 offering a comprehensive Web OPAC service to its users.

### **Publications**

Arora, Ekta Kundra and Vibha Sharma. (2016). Elements in the Chemistry of Life, *Science Reporter*, Nisclair, 20-23.

Thareja, Rakhi, Jyoti Singh, and Rita Kakkar. (2016). Interaction of CdSe quantum dots with some aliphatic and aromatic diamines. *Journal of Integrated Science and Technology*. 4(2). 51-58.

Thareja, Rakhi, Monika Rao, Sukrita Deb, and Alice Paskin. (2016). Theoretical Modeling Replication Association Protein of Indian Cassava Mosaic Virus, *Journal of Integrated Science and Technology* 4(2). 81-86.

### **Conferences Organised / Attended**

Dr. C. B. Jha presented a paper titled "A critical appraisal of GERMANY KAVYAM", at 16th World Sanskrit Conference at Bangkok, Thailand.

Dr C. B. Jha presented a paper titled "GERMANY KAVYAM ka Parichay aur Vaishishtya" at an All India Conference, organised at Vigyan Bhavan, New Delhi by Delhi Sanskrit Akademi.

Dr. Natasha W. Vashisht presented a research paper titled "From *attica* to *commedia*: Dissident Humour Traditions in the Popular Theatre of Dario Fo" at the NeMLA Convention at Hartford, Connecticut, USA from 17-20 March 2016.

Dr. Natasha W. Vashisht presented a research paper titled "Dario Fo's Proletarian feast: A Study of Satire, Farce and the *Carnavalesque* in *Accidental Death of an Anarchist*" at the Fourth International BAKEA Symposium: Humour, held on 7-8-9 October 2015 at Pamukkale University, Denizli, Turkey.

Dr. Natasha W. Vashisht presented a research paper titled "Unmasking Cultural Imperialism: Proletarian Arrogation in Dario Fo's *Can't Pay? Won't Pay!*" at the MELUS-MELOW International Conference held at Indraprastha University, Delhi from 19-21 February 2016.

**Faculty Strength** Permanent Faculty : 65 ; Ad-hoc Faculty : 20

### **Financial Allocation and Utilisation (in Rs.)**

Grant sanctioned : Rs.17,06,85,000/-  
Utilized : Rs. 18,60,73,044/- (unaudited)

### **Placement Details**

Number of students getting successful placements: 89

Number of Companies/Industries coming for campus recruitment: 52

Number of repeat recruiters: 43

### **Extension and Outreach Work**

During the current academic year the Social Service League of college organised a number of activities in which college students interacted with and contributed to communities outside. Some these programmes are

Vidyajyoti - An initiative to provide basic education to 40 students of economically backward families in a slum in GTB Nagar. The project includes training in basic Math, English and an array of extracurricular activities organised by the student volunteers.

Evening classes - The volunteers of SSL give free tuitions to the children of non-teaching staff and other financially backward students living in and near the college campus, every evening.

Pragyachakshu - A part of SSL that caters to the needs of visually challenged students such as sensitizing them to the college campus, arranging scribes, scanning books, etc.

Skip A Meal - A venture in which the resident scholars of the college skip their Sunday meal to be distributed to a shelter home, once in a month.

Visit to Nirmal Hriday, an oldage home at Majnu ka Tila on 10<sup>th</sup> October 2015. Students spent time talking to the residents and shared food with them.

Medical Camp conducted on 17<sup>th</sup> October 2015 in collaboration with the Lions Club, by Parivartan. The camp aimed at improving the health conditions of the karamcharis of the college and their families as well as the residents of the slum in GTB Nagar.

### **Journals subscribed**

International : 10

National : 09

## **SWAMI SHRADDHANAND COLLEGE**

### **Library Development**

Total Budget: 30 Lacs ( appox)

Number of Books added : 5000 ;

Journals : 10

Latest Activities in Library: A separate air-conditioned reading room has been created to provide the much-needed space for teachers to work. Library Automation The Library is making a steady progress towards computerization of the entire Library system. We believe that in the near future, we shall be able to provide a fully computerized library environment. To search different type of E-mails, Internet browsing facility is available in the library.

### **Conferences organised / attended**

Dr. Bhoopender Giri, Department of Botany, Delivered a talk on the topic "Salt Tolerance Mechanism in Mycorrhizal Plants" in the fortnight seminar series on May 28th, 2015, Department of Plant Pathology, North Carolina, State University, N.C, U.S.

Dr. Bhoopender Giri, Department of Botany, Awarded a travel grant by Pennsylvania State University to attend the 20th Penn State Plant Biology Symposium during 13-16 May, 2015.

Dr. P.V. Khatri, Department of Commerce, Delivered a key-note address and presented a paper 'Climate Change and Health Management: An Indian Perspective' in a UGC-Sponsored National Conference, organised by

Government First Grade College, University of Bangalore, Malur, District Kolar, Karnataka on 25 and 26 August, 2015.

Dr. Laxman Ram Paliwal, Department of Commerce, Presented two papers in International Seminar organized by Department of Business Finance and Economic, Jai Narain Vyas University, Jodhpur on 10-12 October, 2015 on 'Human Resource Accounting in India: Concept and Practices' and 'Creative Accounting: Conceptual Framework and Ethics'.

Dr. Laxman Ram Paliwal, Department of Commerce, Presented papers on 'Role of Soft-Skills and Ethics in Accounting Education' and 'Contemporary Issues in Integrated Reporting' in All India Accounting Association, International Seminar and Conference at Punjab University, Chandigarh on 5-6, December, 2015.

Dr. Laxman Ram Paliwal, Department of Commerce presented a paper on 'Recent Development in Professional and Commerce Education' in a National Conference on 18-19 February, 2016 at JIET Group of Institutions, Department of Management Studies, Jodhpur.

Dr. Prabhakar Palaka, Department of English, Participated and presented a paper titled 'English Language: Empowering or Disempowering Dalits' in an International Seminar on 'Language, Literature and Culture', organised by Department of Western Languages, Burapha University, Pattaya, Thailand on 20-21, August, 2015.

Dr. Anand Malik, Department of Geography, Four Lectures delivered as Resource person in NRDMS (DST) sponsored Winter School Training in Geospatial Technologies at Department of Geography, Maharishi Dayanand University, Rohtak from 8 December and December 15-17, 2015. 3.

Dr. Anand Malik, Department of Geography, Lecture delivered as Resource Person in UGC-sponsored add-on course on 'Technology and Leadership in Disaster Management' held in the college on February 3, 2016.

Dr. Vineeta Kumari, Department of Hindi, Delivered a lecture 'Bhartiya Bhashaon ka Antarsambandh' in a three days National Seminar held on 26-28 September, 2015 at Art & Culture Directorate, Panji, Goa.

## VIVEKANANDA COLLEGE

### Major Activities and Achievements

The College won the First Prize (2015-2016) for college gardens in a competition organized by Indraprastha Horticulture Society. Apart from the annual college fest *Pallavi*, departments of English, Commerce, Political Science, Mathematics and Computer Science also organized their subject specific themes based fests in the college. A wall magazine '*Kasturi*' is maintained by Department of Hindi. Department of Commerce brought out the second issue of its newsletter *The Blue Inkpot* and Department of English published its second issue of newsletter *Word Weaves*. Eugene Ionesco's play *The Chairs* was staged by the students of III year English (Honours) directed by Ms. Saraswati Subbu. She also guided a group of third year English (Hons.) students to stage a comic burletta by Charles Dickens as part of the "Dickens Delights" program which also featured an exhibition inspired by his works and characters. The students also performed two popular Victorian dances namely 'Polka' and 'Quadrille'.

### Outstanding Honours/Distinctions

Dr. Neeta Mathur was conferred with 'Shreshtha Kala Shiromani' Felicitation by Amruta Foundation, Mumbai on 10th May, 2015.

Dr. Meera Sood worked as Convener in Yoga Intercollegiate Men and Women competition for 2015-16 held at Vivekananda College, Delhi University.

### Research Projects

Mrs. Radhika Srinivasan, Ms. Rupalee Verma and Mr. Amit Kumar have got University Innovation Project (VC 302): “Manipuri Women Entrepreneurs: In History, Literature and Commerce”. Grant received in the first phase - Rs. 2, 50,000/-

Dr. Shivantika Sharad, Dr. Sunil Verma and Mr. Mukesh Burnwal have got University Innovation Project “The Grass is not always Greener on the other side: A Study on Male Marginalization and Victimization”.

Dr. Sunil Verma has got ICSSR project “A Psycho-Social on Intergenerational Relation in Interdependent Society”

### Students with distinction

Nidhi Sharma from B.A (H.) Sanskrit was given an award by the Delhi Sanskrit Akademi.

Nirmala Chaudhary of B.Sc (H.) Mathematics received a scholarship of Rs. 80,000/- from the Dept. of Science & Technology under INSPIRE program.

Anjali, B.Com.(Hons.) 3<sup>rd</sup> Year : Hockey

Manisha Rana, Pol.Sci.(H) 3<sup>rd</sup> Yr. : Wrestling & Net Ball (State Level)

### Library Development

Total budget of the library: Operational: Rs. 6,80,814/-

NR: Rs. 80,000/-

Total: Rs. 7,60,814/-

Number of books : 61,622

Approx. 45,500 transactions were made in circulation section and 722 books were issued under Book Bank scheme for the entire semester

Report of Stock Verification 2014 was submitted and approved by the Governing Body

New furniture added in the library

Internet facility upgraded in the library

### Publications

International

Choudhary, S. R. (2015). *Srotoka Sarvekshanaur Itihas Lekhan ki Parampara. Parisamvad*, 1(2), 64 –70.

Mathur, N. (2015). The Global impact of Modern Trends on Hindustani Classical Music. *Vageeshwari*, XXV111, 93-97.

Sood, M. & Sharma R. (2015). A Demography of Different Yogic Area of Research and Related Variables. *International Journal of Physical Education Health & Sports Sciences*, 4 (2), 43- 48.

Sood, M. & Sharma R. (2016). Comparison between the Trends of Sports Injuries of Male and Female. *Online International Interdisciplinary Research Journal*, VI (I), 447- 459.

Nandrajog, H. (2016). Tourist’s Gaze and the Insider’s Vision. *Research Scholar*, 4 (I), 105- 113.

Nandrajog, H. (2016). Wounded Words: Translation as Therapy. *Research Scholar*, 4 (I), 40-50.

National

Choudhary, S. R. (2015). *Bharat - Nepal Sambandh: EkAatihatikSarvekshan*. New Delhi: Anamika Publishers and Distributers Limited.

Begum, S.(2015). *Urdu mein Tarikh Nigari ki Tarikh Ibteda aur Irteqa: Atharvin Sadi se 1947 Tak*. (Reprint) Delhi: Lahoti Print ads.

Jain, S. (2015). On fractional convolution and distribution. *Integral Transform and Special Functions*. 26 (11) 885-899.

Nandrajog, H. (Co-edited) (2015). *Chonwian Bartanwi Kahaniyan*. Delhi: Sahitya Akademi.

Suri, S. (2015). *Advances in Food and Nutrition*. Noida: Vikas Publishers.

### **Conferences organized / attended:**

#### **International**

Dr. Sukhneet Suri's paper "Dietary Behaviors, Physical Activity Patterns and Body Mass Index of Adolescent Boys and Girls" received the best paper award during the 3<sup>rd</sup> International Conference on Science Technology and Management held at IIC, New Delhi.

Dr. Sandhya Jain presented a paper "Inequalities Involving Generalized Convolutions and Its Applications" in an International Conference on Function Spaces and Inequalities, Dec 8-12, 2015 at South Asian University (established by SAARC Nations), Delhi.

Dr. Saroj Kumari presented a paper titled "*Chhayavaad yugin patrakarita aur Nirala*" at an International seminar at Shimla.

#### **National**

The Department of Sanskrit, Vivekananda College organized a National Seminar on "Vedic Mathematics" in the college on 23 February 2016.

Dr. Sandhya Sharma presented a paper "*Bhakti Beyond Bhakti Kal*" in National Conference organized by Centre for Advanced Studies during 23-25 February, 2016.

**Faculty Strength** Permanent – 48 (including 01 Acting Principal); Ad hoc – 53

### **Financial Allocation and Utilisation**

Grant Sanction : Rs.22,13,90,760/- (Total)

Utilised in : Rs. 22,13,90,760/- (Total)

### **Placement Details**

Number of students getting successful placements: 50 students

Number of Companies/Industries coming for Campus Recruitment: 11

Number of repeat recruiters: 01

### **Extension and Outreach Work**

A community outreach pilot programme called 'Project Protsaahan/HOPE' was run by the college in collaboration with the office of the DM East Zone. Our college students visited a nearby government school as mentors.

### **Journals Subscribed**

Number of International Journals subscribed: Several international and national online journals are available. In addition to the above, access to a large number of e-Journals is available through UGC Consortia, N-List Program of Inflibnet and through membership of DELNET.

Number of National Journals subscribed: 16 paperback

### **Other significant information**

Mrs. Sushma Aggarwal organized a series of 7 workshops on holistic personality development covering topics like 'Personality development', "Nurturing relationships", "Stress Management", etc. from April 2015 to April 2016 for 35 students of different courses in the college.

A Talent Hunt was organized by "Samarth Society" for the students with special needs on 18<sup>th</sup> March, 2016 under the guidance of Ms. Rachna Megh. Students from different colleges participated to showcase their talents.

Educational Trip was organized by Commerce Department to Dehradun, Mussoorie, and Dhanaulti. 21 students were accompanied by Mrs. Sushma Aggarwal and Ms. RachnaMegh.

The Department of English in collaboration with SahityaAkademi organized a program called 'Through My Window', a lecture by Sukrita Paul Kumar on "*Ismat Chughtai: Her Life and Times*".

Dept. of History organised an excursion for students to Shimla. Dr. Sandhya Sharma, Dr. Shahnaz and Km. Deepthi accompanied the students.

Department of Environmental Studies and its Resilience Center Vivekananda College Chapter (RCVNC) have conducted 12 major activities between September 2015 to March 2016. The activities includes workshops (on soil, air quality, energy efficiency), panel discussion, capacity building programs for local community, resilience week celebration, launch of Resilience Atlas 2015, community day celebration, intercollege competition, charter declaration on air quality, launch of Neighbourhood project and research paper presentation (in national symposium) by students working on different projects under supervision of Dr. Seema Sharma.

## **ZAKIR HUSAIN DELHI COLLEGE**

### **Major Activities and Achievements**

The college Annual Day was organised on 12<sup>th</sup> April 2016. Celebrated environmentalist Shri. Chandi Prasad Bhatt was the Chief Guest of the program. On 9<sup>th</sup> May 2016 the College signed a power-purchase agreement with Azure Power, installing a solar photovoltaic power-plant, that is likely to save about Rs. 2,50,00/- p.a. and reduce 1733.73 tonnes emission of Carbon dioxide. Professor Ebba Koch, Tagore National Fellow for Cultural Research delivered the 28<sup>th</sup> Zakir Husain Memorial lecture on "Iranian Facets of Mughal Kinship" on 25<sup>th</sup> February 2016. Eminent Urdu poet Janab Gulzar Dehlvi delivered the 9<sup>th</sup> Delhi College Lecture on "Dilli Ki Tareekh aur Tehzeeb" on 18<sup>th</sup> January 2016. The biennial Bhisham Sahni book fair was organised on 10-11 March 2016.

### **Outstanding Honours / Distinctions**

Dr. Mohd. Wahid Ansari (Botany) received the Uttarakhand Governor Award (2015) for Best Research Paper "Response of indigenously developed bacterial consortia in progressive degradation of polyvinyl chloride", *Protoplasma*. He received the Uttarakhand Governor Award (2016) for Best Research Paper "Dose-dependent response of *Trichoderma harzianum* in improving drought tolerance in rice genotypes, *Planta*."

Dr. K.K. Arora (Chemistry) has been appointed as Convener in the Committee of courses for Chemistry, C.B.S.E. (2016). He got 12 video lectures recorded at IIT (Roorkee) on UGC curriculum under 'National Mission for Education through ICT', a project of MHRD (2015-16). Dr. Arora also delivered nine invited lectures under



INSPIRE Programme of Department of Science and Technology and in Teacher Training Programmes at Delhi, Panchkula and Himachal Pradesh (2015-16).

Dr. Sulekh Chandra (Chemistry) was elected as the Chairman of the Northern Society of Ecotoxicology and Environment Science (ICEES) (2014). He was also awarded a research project funded by the Defence Research and Development Organisation (DRDO), New Delhi (2015)

Dr. Devesh Vijay (History) successfully completed a Two Year Fellowship at the Nehru Memorial Museum and Library, New Delhi in July 2015 with two Working Papers and one published book titled, *Dalits and Democracy: Transitions in Two North Indian Communities*, Mumbai: Himalaya Publications, (2016). He also submitted two major Research Projects to the Indian Council of Social Science Research, and the University Grants Commission in between October and December, 2015. He was appointed the Convener of syllabus revision committee for the paper Issues in Contemporary World in 2015-16.

Dr. Sonu Trivedi (Political Science) has been invited as Visiting Faculty in the Indian Institute of Management, Indore, for the Five-Year Integrated Programme in Management (2015-16)

### **Research Projects**

Dr. Mohammad Wahid Ansari (Botany) is the principal investigator in a research project titled 'Characterization of Ethylene induced through Fusarium Mangiferae in Mango malformation', by the Department of Science and Technology, Government of India. Amount Sanctioned: Rs. 19,39,000. Year: 2013-16.

Dr. Ratnum Kaul Wattal (Botany) was awarded an Innovation Project titled 'Designing a Mathematical model to solve upcoming water crisis in Noida / Greater Noida Region' funded by Research Council, University of Delhi. Amount Sanctioned: Rs. 3,50,000. Year : 2016-5-16.

Dr. S. K. Rajouria (Physics) was awarded a Delhi University Innovation Project on "The Impact of Yoga and Physical Exercise on well being of elderly". Amount sanctioned: Rs. 3,50,000. Year: 2015-16.

Dr. Satish Ganta (Zoology) was awarded a Delhi University Innovation Project on 'Development of user friendly low cost portable biosensor for the detection of pesticides'. Amount sanctioned:Rs. 7,00,000. Year: 2015-16.

Dr. Sunil Kumar (Zoology) has been awarded with Two Delhi University Innovation Projects including one on 'Development of User-friendly low cost portable biosensor for the detection of pesticides', and another titled 'Designing a Mathematical model to solve the upcoming water crises in Noida / Greater Noida region'. Amount Sanctioned: Rs. 3,50,000 and Rs. 7,00,000 respectively. Year: 2015-16.

### **Students with distinctions**

Md. Abul Kalam got University Gold Medal for BA (H) Arabic with 80.55%.

Rakhi Goswami got University Medal for BA (H) Bengali with 63.35%.

NCC: This year, our NCC cadets were selected for and participated in *The Republic Day Camp, The Army Attachment Camp, The All India Trekking Camp*, also known as the Sardar Patel Narmada Trek, *The Chief Minister Rally, Advanced Leadership Camp, The Annual Training Camp, The Combined Annual Training Camp, The National Integration Camp, Snow Skiing Camp, and Para Slithering Camp, Special National Integration Camp* and won laurels for the College. On 26<sup>th</sup> of January 2016, 8 cadets were selected for *Guard of Honour* and 5 cadets were selected for the *Wreath Laying Ceremony*, and CDT Prince Chaudhary was selected as *Army Guard Commander* for the Amar Jawan Jyoti event.

NSS: One student, Ankit Kumar was selected for the Pre-Republic Day Camp Parade.

## Library Development

Grant Allocated	: Rs. 13,35,000/-
Spent	: Rs. 13,35,787/-
Number of books and journals added	: 3005

## Publications

Abdullah. (2016). Necessary condition of p-wavelet frame on Positive Half-line using the Walsh-Fourier Transform. *International Journal of Computer & Mathematical Science*, 5 (2). 105-109.

Alam, Aftab. (2016). Discrimination and Exclusion: A Case of Dalit Muslims in India. *Unequal Worlds: Discrimination and Social Inequality in Modern India*, (ed) Vidhu Verma, Oxford University Press, New Delhi.

Arif, Mohammad. (2016). "Synchronization of a Planner Magnetic Binaries Problem including the Effect of the Gravitational Forces of the Primaries, *International Journal of Sciences and Applied Research*, 2 (12). 112-121.

Gupta, Shruti. (2015). Social Entrepreneurship: Trends and challenges. *International Journal of Entrepreneurship and Business Environment Perspectives*, 4(3). 1813-18.

Maheshwari, Ankur. (2016) Genetic improvement in Genus Eleusine. *Gene Pool Diversity and Crop Improvement* (eds.) V.R. Rajpal et al, Switzerland: Springer International Publishing.

Pandita, Sangeeta. (2015). Use of Weeds and Agro-based Waste and their Blends for Handmade Paper Making. *DU Journal of Undergraduate Research and Innovation*. 1(3) 169-79.

Reeta. (2015). Human Resource Accounting Practices in Public Sector Companies in India. *International Journal of Trends in Human Resource Management*. 4(1). 16-26.

Rehman, Jameel-Ur and Jamshed Khan. (2016) *Ahed-e- Vasta ki Dilli: Tehzibi Jhalkiyan*, Delhi: Great Book Contractor.

Singh, Shraddha A. (2015). Addressing the Current Crisis in Canadian Multiculturalism, *Lapis Lazuli: An International Literary Journal*.5(1). 360-370.

Trivedi, Sonu. (2015). Transition from Authoritarianism to Democracy: A Comparative Study of Indonesia and Myanmar. New Delhi: Atlantic.

## Conferences organised / attended

The Department of Botany organised a National Symposium sponsored by UGC on "Biotechnology in Crop Improvement: Prospects & Challenges" on April 1, 2016.

The Department of Political Science organised a one day UGC sponsored national seminar on *Ways of Seeing* in March, 2016.

The Gandhi Study Circle in collaboration with the University of Delhi organised a two-day International Conference on "Gandhi and the Contemporary World" held on 24<sup>th</sup> and 25<sup>th</sup> February 2016 at the Conference Centre, University of Delhi.

Mohd. Afzal (English) presented a paper at the UGC National Seminar on 'The Indian Vernacular: Languages,

Literatures and Histories' organised by Department of English, Delhi University in September 2015.

Ms. Shraddha Adityavir Singh (English) presented a paper at the 41<sup>st</sup> British Association for Canadian Studies Conference at the British Library, London, United Kingdom on 20<sup>th</sup> April 2016. She received the UGC Travel Grant for the same.

**Faculty Strength** Permanent: 149; Temporary : 03; Ad-hoc: 45

**Financial Allocation and Utilisation** (in Rs.)

Grant sanction: Rs. 38,35,45,760

Utilised: Rs. 38,85,94,231

**Patents Filed/Granted**

National

Solar Water Distiller, Indian patent Application 472/DEL/2013 (Result due in 2016-2017) – Physics Department

**Placement Details**

Number of students getting successful placements: 76

Number of Companies/ Industries coming for campus recruitment: 06

Number of repeat recruiters: 02

**Extension and Outreach Work**

Number of camps organised in the surrounding areas:

Study trip to rural Meerut on 14<sup>th</sup> April 2016

Dengue Awareness by NSS on 24<sup>th</sup> September 2015

Number of people enrolled / covered in the camps: . 35; Impacted roughly 5000 people in the neighbourhood

Number of students who worked in the camps: 25; 400

Total number of hours dedicated to these camps: . 10 hours; 3 hours

**Students under exchange programme**

The Political Science Department got the opportunity to host a visiting delegation of students and teachers from Myanmar and interact with them in October 2015.

**Other significant information**

As a part of a recent project of the Nature and Environment Society, a group of 40 students went to a 'seed collection and preservation walk' at Asola Bhatti Wildlife Sanctuary.

## ZAKIR HUSAIN POST GRADUATE EVENING COLLEGE

**Major Activities and Achievements**

The first Ameer Hasan Abidi Memorial Lecture was organised on 14 April 2016, wherein Prof Shahid Mehdi, ex-VC, Jamia Millia Islamia University was invited as the Chief Speaker. The first *Mirza Mehmood Begg Memorial Lecture* was organised on 19 April 2016 wherein Prof. Ramesh Chand, Member, NITI Aayog was the Chief Guest. The National Service Scheme of ZHDC (E) organised events under the Swachh Bharat Abhiyan on 1 October 2015. Rashtriya Ekta Utsav, an annual commemoration of Sardar Vallabhbai Patel was organised in the college from 29-31 October 2015. The NSS unit also commemorated the birth anniversary of Swami Vivekananda on 12 January 2016. Lecture series on Urdu poet Akhtar-ul Iman organised by Bazm-e-adab, the Urdu Literary and Cultural Society on 5-6 November 2015. Lecture on Veda and Gita by Retd. Prof. Pravesh Saxena organised by Department

of Sanskrit on 4 February 2016. Seminar talks by Prof. Najaf Haider, JNU, and Prof. P K Basant, Jamia Millia Islamia, organised by Department of History on 29 February 2016 and 18 March 2016.

### **Outstanding Honours / Distinctions**

Dr. Prabhat Ranjan, Assistant Professor, Department of Hindi, was awarded the first *Bhashkar Yuva Lekhak Samman* at Jaipur Literature Festival 2016 for his book *Kothagoi*.

### **Research Projects**

Dr. Madhumita Chakraborty, Mr. Sanjay Kumar, & Ms. Amreen, have got University Innovation Project "Dropout rates of minority girl students in university of Delhi: a study of select colleges of Delhi University."

Dr. Anil Sharma has got UGC project on "HINDI RANGMANCH KE VIKAS MEIN NATYA SANSATHAON KA YOGDAAN."

### **Library Development**

During the session 2015-16 938 textbooks added to the Library. Library dealing timing increased from 3.00 p.m. to 9.00 p.m. instead of 3.00 p.m. to 8.00 p.m. Rs. 20,000 donated by Students' Union towards purchase of textbooks. Library made fully air conditioned. One computer set with printer and scanner installed in the teachers' reading room of the Library for use during conferences/seminars etc. One Canon photocopier machine installed in the Library. Two new OPAC for searching books installed in the Reading Room area. All the bookshelves and racks newly painted.

### **Conferences organised / attended**

National Conference on "*Emerging Challenges & Opportunities in Business and Economic Environment*" was organised by Departments of Commerce and Economics on 3-4 November 2015.

UGC sponsored National Conference on "*Imagining the Indian Popular: Globalisation and its (Dis)contents*" was organised by Department of English on 3-4 March 2016.

National Conference on "*Environmental concerns of 21st century: Indian and Global context*" was organized by Department of Environmental Studies on 21-22 March 2016.

National conference on "*Make in India: Policies, Issues and Challenges*" was organized by Department of Political Science in collaboration with the Departments of Economics, Hindi, philosophy and History on 29-30 March 2016.

**Faculty Strength** Permanent: 53; Ad-hoc: 34

### **Financial Allocation and Utilisation**

Grant sanction in Rs.16,07,82,760/-

Utilized in Rs.14,64,42,140/-

### **Placement Details**

Number of students getting successful placements : 14

Number of Companies/Industries coming for campus recruitment : 01

## UNIVERSITY HOSTELS/HALLS

### AMBEDKAR-GANGULY STUDENTS' HOUSE FOR WOMEN

The Ambedkar-Ganguly Students' House for Women was established in October 2003 and is being maintained by the University of Delhi. It is by and large, a self-sustaining residence for women students of the University of Delhi. It can accommodate upto ninety nine residents and four guest residents. The house is aesthetically divided into two spacious and airy wings with 50 rooms in each wing. The House has well equipped computer room, Common room, Gym, Reading Room cum Library and spacious dining hall with a modern kitchen. The hostel provides shuttle bus service from hostel to University campus and back.

The Provost is the head of the house and the warden and Resident tutor look after the day-to-day administration with the assistance of the office staff.

There are forty nine seats for post graduate students of Delhi School of Economics and its departments i.e. Economics, Geography and Sociology. The other fifty seats are reserved for women post-graduate students belonging to SC and ST. 5 % of seats are reserved for PwD categories against the total 99 seats. All the seats are allotted to the students in order of merit among the applicants from various disciplines, in terms of the merit lists provided by the respective departments.

The sale of application forms for the academic session 2015-2016 started on 13<sup>th</sup> July, 2015. Admission of the students started from 28<sup>th</sup> July and the hostel reopened on the same day i.e. 28<sup>th</sup> July, 2015.

The academic session 2015-2016 started with the election of the Students' Welfare Association (SWA) on 21<sup>st</sup> September, 2015. During the reporting period, various cultural activities were held in the Hostel with the help of the elected SWA Executive members and Hostel Authorities.

A glimpse of some events organised:

On 15<sup>th</sup> August, Independence Day, was celebrated by hoisting the National Flag, followed by the singing of the National Anthem and distribution of sweets. On this day, the hostel staff along with the Hostel Authorities had breakfast together in the mess. On 6<sup>th</sup> October the Fresher's party was organized in a gala way and the Vice-Chancellor, Prof. Dinesh Singh was the Chief Guest on this occasion. This was followed by Diwali celebration on 11<sup>th</sup> November 2015 which was done by lighting up the Hostel building and celebrated the festival in a traditional way with diyas and sweets. Christmas day was celebrated by singing carols, cutting of cake with the students and Christmas tree was decorated with decorative items and lights. The function of Lohri was celebrated on 13<sup>th</sup> January, 2016 by lighting bonfire and all the students gave Aahuti on the bonfire. Republic day was celebrated by hoisting the National Flag, singing the National anthem and distribution of sweets & snacks among the residents and staff. On this day the hostel staff along with the Hostel authorities had breakfast together.

In the 1<sup>st</sup> week of February 2016, a seven days "Yes+" course was conducted in the hostel by Art of Living Foundation. It has benefited a number of residents. On 24<sup>th</sup> March, 2016, Holi was celebrated with colours and sweets were distributed among staff and students. Various celebrations of events brought residents from different cultures together where they shared their experiences to make their stay in the hostel memorable.

The annual function of the Hostel was celebrated on 6<sup>th</sup> March, 2016 with pomp & show. Ms. Sayema Rehman, RJ, Radio Mirchi was the chief Guest and Mr. Ishwar Das, a good Samaritan who has been selflessly helping PwD students of the University, was the Guest of Honour on this occasion. The function was attended by members of the

Managing Committee. The students performed several musical and cultural activities on the stage which was highly applauded by the guests. It was then followed by a sumptuous dinner and Jam session.

In view of the students' comfort, the following purchases/facilities have been made and provided to the hostel residents during the period 2015-2016:

1. Medical room facility (with bed, drip stand, basic medicines, thermometer, blood glucose machine etc.)
2. One hand dryer & nine soap dispensers
3. Two hot plates
4. One weighing machine
5. Sound system (with one amplifier, two speakers, two microphones and one collar mike)

### **ARAVALI POST GRADUATE MEN'S HOSTEL**

The Aravali Post Graduate Men's Hostel was established in 2005 by the University of Delhi, South Campus to provide accommodation facilities for the bonafide research scholars and post graduate students of the South Campus.

The Hostel has the capacity to accommodate 74 students on single occupancy basis. Every room is equipped with a bed, mattress, study table, study chair, curtains, easy chair and a white laminated Board. The Hostel has a double occupancy Guest Room equipped with Air Conditioner in summer and Heat Convector facility in winter, as well as a Utility Room with a Desert Cooler.

It also has a quality Common Room for recreation which has been equipped with high definition TV set along with d2h service. The Hostel also has a comfortable reading room with a number of newspapers and magazines, as well as excellent sports facilities for indoor games like Table Tennis, Chess, and Carom etc. The Hostel is equipped with modern Wi-Fi facility to provide smoother and faster internet service to the residents. Five CCTV cameras have been installed all around the hostel for surveillance of untoward activity and to observe the suspects. In collaboration with Saramati P.G. Men's Hostel a unique laundry facility has also been made available to the residents. The Aravali hostel also provides accommodation to trainees coming to the South Campus under the INSA/DST's INSPIRE program and to trainees from other institutions as well, especially during summer vacations. The Hostel celebrated Independence Day, Republic Day and the Annual Hostel Night "MILANGE 2016" together with Saramati Hostel on 12<sup>th</sup> March, 2016.

The Hostel provides good quality food to its residents. The quality of food is consistently monitored. Besides this, recreation facility is also available in dining hall with television along with D2H facility. The kitchen and the dining area has been equipped with deep freezer, high capacity refrigerator, desert cooler, reverse osmosis water purifier and other quality kitchen equipment.

### **CENTRAL INSTITUTE OF EDUCATION**

The Central Institute of Education has two hostels, Shree Bhawan for women and Shakti Bhawan for men which were established in the year 1950. Shree Bhawan has eight rooms accommodating twenty three female students and Shakti Bhawan has three dormitories and one two seater room accommodating twenty four male students. The hostels accommodate students from B.Ed., M.Ed., M.Phil. and Ph.D. programmes.

There is one visitor's room with TV and reading facilities. Apart from the general books, periodic magazines and regular newspaper facilities are also available for the residents. Sports facilities are provided to the student through departmental arrangements. The Resident celebrate the different festivals in the Hostel in different ways. Residents

participate in face to face discussion, debate, Nukaad Natak and other programmes on a regular basis. The Hostel Mess is maintained by the Hostel Residents. Every month a new committee is formed with two men & women residents. They prepare the hostel menu in consultation with the Warden/Resident Tutor. This inculcates the sense of belongingness and responsibility among the residents. Apart from the Hostel Mess Committee, there are cleanliness and grievance committees. The Hostel organizes periodic meetings on issues related to awareness and general maintenance. One panel discussion, two lectures on different issues, and a poem recitation programme was also organised.

The Hostels have four automatic washing machines, two each for Shree Bhawan and Shakti Bhawan. RO purified drinking water supply attached with water cooler is also available in both hotels as well as in the Mess. Wi-fi facility is available in Shakti Bhawan.

### **D.S. KOTHARI HOSTEL**

The D.S. Kothari Hostel named after late Professor D.S. Kothari, an eminent Physicist and a well-known educationist was established in 1997, the Platinum Jubilee year of the University of Delhi. It has 39 double seated and 19 single seated rooms to accommodate postgraduate students and research scholars of the University. The policies of the Hostel are decided by the Managing Committee under the overall guidelines and policies of the University of Delhi. The following depict the main initiatives/programmes of the Hostel during the year 2015-16.

All the national days and festivals were celebrated to create a mutual familiarity of cultures by the local and international students. Hostel successfully organized Annual Function “AAHANG-2016”.

The Election of Resident Student Union of the Hostel was conducted smoothly as unopposed.

The Hostel purchased 2 Room Coolers and 10 Mess Chairs (Steel) from the Hostel Development Fund and 2 water Coolers and 10 Mess Chairs (Steel) from Plan Grant.

The J. Swarup Cup was awarded to Hostel at the 58<sup>th</sup> Annual Flower Show held on February 26, 2016.

### **DEPARTMENT OF SOCIAL WORK HOSTEL**

The Department has its own hostel. The foundation stone of this Hostel was laid by Mrs. Durgabai Deshmukh, Chairman, Central Social Welfare Board, Government of India on 25.07.1962. However, the Hostel became functional from 16th July 1966. It is the 50th year of its existence. Being an attached Hostel within the Departmental premises, it adds to the development of overall personality of Social Work students and helps in reinforcing the professional elements. Both men and women students, pursuing M.A., M. Phil., and Ph. D. in Social Work, stay here. In the current academic session, 37 women and 51 men students (totaling 88) are being accommodated in 50 rooms. As of now, the M Phil and Ph D scholars have single occupancy rooms and the rest are on a twin sharing basis.

**Infrastructure and facilities:** The campus is quite friendly to persons with disabilities. Its entrances have been modified and fitted with ramps to suit their special needs. There are 59 Rooms; a students’ managed mess with well-furnished kitchen and dining facilities; three drinking water points with reverse osmosis filtering facilities; a fully furnished common room; a mini gymnasium; a reading cum meeting room; office rooms; Warden’s residence; lush green lawns; and a bore well in addition to Municipal Water Supply; as also CCTV surveillance in addition to security services; Wi-Fi service; TV with DTH services in the common room; laptops in the reading room for

academic use; and a number of news papers, magazines and periodicals. The DSW Hostel has its own interactive website <http://dswh.du.ac.in> giving information about the Hostel. There is security service in the Department campus as such throughout the day and for the Hostel, there is additional security from 5 pm to 9 am. Two security guards provide their service in two shifts daily.

**Hostel Union Club:** Election to the Hostel Union Club members was held on 11th September 2015. It usually holds its general body meeting once a month to ensure participation of all residents in the hostel activities. The Hostel Union Club arranges events to welcome the fresh batch of students and to bid farewell to passing out students. It also celebrates various festivals, such as Independence Day, Republic Day, Eid, Diwali, Lohri, Holi, and the like. In the current session, the fresher's welcome party was held in the hostel on 28th September 2015. The occasion was graced by the provost and the warden.

## GEETANJALI HOSTEL

The hostel organized its Annual Cultural Nite on 04<sup>th</sup> March, 2016. As every year Painting, Creative Writing in Hindi & English, Collage, Photography and various sports competitions were held and the residents were given prizes during the Annual Day celebrations. The residents celebrated festivals like Christmas, Lohri, Holi and Diwali with great fervour. They also organized Saraswati puja on the occasion of Basant Panchami. Independence Day was also celebrated with great fervor with the hoisting of national flag by provost followed by a small cultural program on the patriotic theme, organized by the students. Students and staff of the hostel also participated actively in the "Swachh Bharat Abhiyan".

Major renovation work was undertaken during the summer vacations of 2015, where all rooms were whitewashed and re-painted and all toilets, windows, doors were repaired. A website was also launched for the hostel: <http://www.geetanjalihostel.du.ac.in>, which includes details about the hostel facilities, forms, events held, a feedback form and a video of the "Walk through the hostel".

This year, the hostel has installed a state of art gym and indoor exercise facility for the resident girls. It is equipped with three sets of "Magnetic Upright Bike", "Twister", "Multi Bench" and a "Tread Mill" housed in the Common Room.

Also, as a step towards using green and clean energy, the hostel has replaced all tube lights and traditional bulbs in common areas like corridors and pathways, with LED bulbs which are more energy efficient.

## GWYER HALL

Gwyer Hall is the oldest & most prestigious men's post graduate Hostel of the University of Delhi. There is a unique distinctive feature of this hostel where students and faculty members live and dine together. Over the years Gwyerians have made their presence felt in all walks of life in India and abroad. The hostel takes necessary step to ensure that the spirit and rich heritage that have survived over the years of its existence continues to flourish.

**Admissions:** There was a great rush for admission in this hall during the current academic year 2015-2016 and about 900 applications were received for Master's, LL.B, CIC, M.Phil, Ph.D., B.Ed. M.Ed. program of the University. The Admission Committee, after careful scrutiny, filled up the vacant seats attached to various departments of the University. The admission was granted purely on the basis of merit.

**Development:** The surroundings of the Hostel gymnasium have been stoned and some of other areas are also cemented in the premises of the hostel. The outside area, next to the Canteen and Gymnasium has also been



developed. One new newspaper room has been provided for the residents. Renovation of the roof of TC/DC room has been done. A regular cleanliness drive has been organized under the Swachh Bharat Abhiyan.

Union Elections: Election to the various posts of Gwyer Hall Student's Union was conducted peacefully during the session in accordance with the provision of Lyngdoh Committee. Residents and representatives in the Union remained active in maintaining peaceful and friendly atmosphere.

Hygienic Measures: In order to augment hygienic facilities, steps have been taken to get the overhead water tanks cleaned from time to time. Measures were also taken to ensure cleanliness all over the Hall including Kitchen, Pantry, Store and Toilets on priority.

Festivals and Functions: The Gwyer Hall participated in the 56<sup>th</sup> Annual Flower show organized by the University of Delhi and got first prize for the year 2015-2016.

The Hall residents organized various functions to mark and celebrate occasions like Budha Purnima, Independence Day, Diwali, Christmas, New Year, Republic Day, Sarswati Puja, Id-Ul-Fitar, Holi and B.R. Ambedkar Birth Anniversary.

Wi-Fi: This facility has been provided to the residents of the Hall by the University.

Sports: The residents participated in the inter hostel Cricket & Badminton tournament organized by the Jubilee Hall. The hostel residents won the prize in single and double badminton tournament. The residents participated in the intra-hostel volleyball tournament organized by the Gwyer Hall Student's Union.

New Equipment: Two new computer and two office tables have been purchased.

Facilities for PWD Residents: Toilet and ramp for PWD students has been constructed.

## **INTERNATIONAL STUDENTS' HOUSE**

The International Students' House was set up in 1964 by Indian Council for Cultural Relations, Ministry of External Affairs for foreign students and postgraduate Indian students. There are 98 rooms and all are single seated. During the academic year 2015-16, 64 foreign students from 28 countries in addition to 30 Indian students were admitted in the House, presenting an amalgamation and diverse mosaic of International and Indian cultures. Because of its international nature, ISH occupies a special position in the hostel system of Delhi University. The present hostel administration includes Professor Rajeev Gupta as Provost and Professor Mahendra Nath as Warden.

The residents elected on Tuesday the October 10, 2015 Mr. Manish Kumar Sonkar (Indian national) as the President; Mr. Qatsa Leshota (Lesotho National) as the Secretary; and Mr. Raghav Singhal (Indian national) as the Treasurer, to the International Students' House Union. Various Committees were formed to look after Cultural, Sports, Mess, House, Common Room, Computer Room and other activities of the House. Ever since its inception, the ISH has been acclaimed for its diversified cultural activities. The House Union 2015-2016 organized the following Cultural events:-

A Fresher's welcome party coupled with inauguration of the House Union was arranged on October 26, 2015.

The House celebrated Independence Day, Deepawali, Christmas, New Year's Day, Republic Day, Lohri, Swami Viveka Nand Jayanti, Idu'l Fitr, Idu'l Zuha, Saraswati Pujan, and Holi with gusto and enthusiasm. These occasions

created opportunity for the International Students to know about the Indian Culture and the Indian students to be aware about the foreign cultures.

The International Students' House Union organized the ISH Sports Competition Intra-Inter Hostel in the month of February, 2016.

The ISH celebrated its 52<sup>nd</sup> year and Annual day function termed "Milestone 16" on 27<sup>h</sup> February, 2015. Professor Tarun Kumar Das, Registrar of the University of Delhi was the Chief Guest. During the event, Alumni Meet, various prizes, honours and certificates were awarded to the deserving residents' for sports and cultural activities. Students and artists from various countries including India, Sri Lanka, Fiji, Ethiopia, Cambodia, Indonesia, Nepal, Mauritius, Afghanistan, Thailand and Nigeria entertained the audience with culturally rich programs. Many distinguished guests from the Delhi University and diplomats also attended the colourful event. A special Dinner was organized for the guests and the residents on this occasion.

The year was also marked by the improvement of services to the residents, such as the purchase of one additional washing machine, one LED (TV) 48", one Air Conditioner for Computer room, four steel sofa (three seated), Room Cooler for Common room: renovation of Common room & Computer room, Installation of Newspaper stand in reading room and CCTV Cameras for students security.

### **INTERNATIONAL STUDENTS' HOUSE FOR WOMEN**

The multicultural character of the International Students' House for Women is central to all the activities organized by it. Residents from more than 30 countries jointly celebrate their cultural festivals and important national occasions in the spirit of harmony and friendship. The focus is on unity in diversity.

As in previous year, in 2015-16 after the disposal of Hostel equipment's& furniture etc. by the Write off Committee members of Delhi University the House administration decided to restore / or enhance the following facilities:-

- 01 Beacon Monoblock 7.5 HP Motor Pump III phase
- 01 48" LCD TV Sony Bravia Model 48R562C
- 03 LG Microwave Convention Model MC-3283AG
- 08 LG Double Door Refrigerator 310 Lt
- 03 1.5Ton Voltas window AC
- 03 IFB Washing Machine 7.5 KG - TLRCH Top loading
- 04 Philips Steam Iron
- 08 Geyser 50 Ltr
- 04 Geyser 15 Ltr
- 02 Eureka Forbes RO System 50 LPH with Storage
- 01 Treadmill Aerofit AF 749
- 02 Elliptical Aerofit AF 720
- 02 Recumbent Bike Aerofit AF 8719 R
- 01 Multi-Function Home Gym Aerofit AF 1315
- 03 Bajaj Electrical Kettle
- 01 Samsung 23" LED TV 23H4003 attached with CCTV
- 04 Voltas 1.5 TON Split AC
- 03 Voltas 1 TON Split AC

- 12 Lenova Think centre M93P Core i5 4th Gen/ 4GB RAM/500GBHDD/18.5" /DVDRW/ USB KB M/ Window 8 professional
- 01 HP Laserjet M100 Printer cum scanner
- 01 Sony Home Theater Music System
- 04 Philips Four slice toaster
- 02 Eureka Forbes RO System 50 LPH with Storage
- 02 Aquaguard Reviea RO Purifier System
- 01 Deep Freezer Blue star 700 Ltr. Deep Freeze
- 01 Deep Freezer Coolex ,Vertical, 02 Door, SS Chiller, 650 TNM

#### **Furniture**

- 01 Two Seater Wood Sofa
- 21 Single Beds with back rest
- 06 three seater sofa
- 01 two seater sofa
- 36 Study table
- 10 Cloth Stand
- 01 Steel cabinet

The academic session 2015-16 began with the following:-

Independence Day was celebrated with flag hoisting, singing of National Anthem and serving of special breakfast and dinner. Idul'1 Fiter was celebrated, a special dinner keeping in mind the need of girls who were fasting during the Ramzan was served and sweets distributed.

Diwali was celebrated with much festivity in the House. A day before Diwali, the House was decorated with lights. A lavish dinner was served and most of the residents were in traditional Indian outfits. The evening ended with a jam session. Orientation Programme was held on the Friday, 24<sup>th</sup> October-2015 in the Lounge Room of the House. A Freshers' Party (2015-16) was organized on Friday, 16-10-2015 with special dinner. Christmas is a time of yuletide and joy. Christmas carols, a bonfire, dance and music brought out the spirit of Christmas for all. A New Year Party was organized to celebrate the advent of the New Year in the House. Lohri was celebrated with a bonfire & dancing. Republic Day was celebrated with flag hoisting, singing of National Anthem followed by special breakfast in the Dining Hall. After that at 9:00 am the activities of the Sports' Day started with competition, games and various other activities between the ISHW residents. It was followed by special breakfast and refreshment etc. The Annual Flower Show held on Friday, 26<sup>th</sup> February 2016 where ISHW won best Mali Award. Holi was celebrated. The Holi get-together celebration was followed by light refreshments.

The Annual Guest Night function was organized on Saturday, 12<sup>th</sup> March 2016 at 6:00 pm onwards. The theme this year was "PERIVALLO". The Chief Guest was Mr. P.A. Sumedha Ponnamparuma, Minister Counsellor, Sri Lankan High Commission. Professor S. M. Patnaik, Chairman Managing Committee of ISHW, from Department of Anthropology was Guest of Honor on the occasion. More than 400 guests including diplomats from various embassies and friends of residents from Delhi University Colleges were invited. Many guests from the University graced the occasion.

The Library Committee organized a trip to the Garden of National Zoological Park on Saturday, 20<sup>th</sup> February-2016. A Farewell Party for the residents of the year 2015-16 was given to the outgoing residents who relived and narrated the wonderful time they had spent in the House.

## JUBILEE HALL

Jubilee Hall is a prime Hall of residence for full time post graduate & research students of the University of Delhi. It was founded in 1947 on the occasion of the Silver Jubilee of the University. The internal administration & discipline of the Hall is vested in the Provost who is assisted by a Warden and a Resident Tutor. The Hall functions under the administrative control of following:

The Hall performed a number of activities:

- Jubilee Hall celebrated its Annual Function “Jubilation” and many distinguished alumni took part along with other renowned personalities to grace the occasion.
- Maintaining its glory this year a number of residents were selected for the higher posts in all India Competitive Services of Govt. of India.
- To keep harmony and its basic character of “Unity in Diversity” Hall celebrated all festivals viz Saraswati Pooja, Holi, Id, Independence Day, Deepawali and Christmas with lot of gaiety and enthusiasm.

## MANSAROVER HOSTEL

Mansarowar Hostel is a Men’s Hall of residence for full time post-graduate and research students having capacity to accommodate 165 residents coming from various parts of India and abroad for higher studies in University of Delhi.

Administration- The Provost is the administrative head of the Hostel. For the administrative purposes, he is assisted by the Warden, who is in-charge of the day today affairs of the hostel and the Resident Tutor, who looks after the extra-curricular activities and general welfare of the residents. The Provost, Warden and the Resident Tutor are appointed by the Vice-Chancellor on behalf of the Executive Council of the University.

Admission: A total of 600 forms for admission and registration for admission to hostel were printed, out of this 520 forms were sold to various applicants. The office received 476 forms from the applicants seeking admissions to hostel. 69 students were given admissions as per vacancy. The details of residents in various categories are as follows:

Total No. of Residents	General/OBC Students	SC Students	ST Students	Foreign Students	PH Students
165	115	25	12	08	05

### Achievements/Development

State of the art washroom for persons with disability is available. Two Ramps for them to facilitate easy access in the Hostel were constructed. Various renovation works in the hostel have been completed. The Hostel has become fully Wi-Fi enabled campus. Successful bidding and award of contract of new canteen and photocopy shop in the hostel premises was achieved.

## MEGHDOOT HOSTEL

The Meghdoot Hostel observed a number of activities and enthusiastic innovations in the academic year 2015-16. Some of them are listed as follows:

Celebration of World Environment Day: The residents and staff of the Meghdoot Hostel for the first time celebrated the World Environment Day on 5<sup>th</sup> June, 2015 under the theme “Sustainable consumption and production”. The

slogan for the theme was “Seven Billion Dreams, One Planet. Consume with Care”. The members of Management Committee and all the staff members took active part in this celebration. Tree saplings and medicinal plants (200 in numbers) were planted by the residents as well as staff of the hostel including the Management Committee members.

Swachhta Abhiyaan week ( 22nd-26<sup>th</sup> June, 2015): The students and the employees of the hostel along with the Warden and the Provost actively participated in the Swachhta Abhiyaan week undertaken between 22-26<sup>th</sup> June, 2015. On this occasion the common area premises including the parking lots and pathways was cleaned during the cleanliness drive. For the successful implementation of the cleanliness drive, the team comprising of the hostel warden, office in charge, student representative and the mess steward was formed to monitor the cleanliness in the hostel premises. All the residents were guided to clean their room/corridors/ lawns, mess, etc. Dustbins for waste disposal were placed for maintaining hygienic conditions in the Hostel premises.

Celebration of IFTAR Party: Iftar is one of the religious observances of Ramadan and is often done as a community, with people gathering to break their fast together. For the first time the hostel residents along with the Muslim inmates celebrated Iftar Party on 15th July, 2015 in the mess and all the residents along with Provost and Warden participated in this event.

Celebration of Independence Day: Independence Day was celebrated on 15<sup>th</sup> August 2015. The Tricolour was hoisted by the Warden. On this day each resident wore white, saffron or green colour attire with a flag broche as a symbol of love and gratitude to the Nation.

Celebration of Eid: All residents celebrated the Id-ul-Zuha (Bakrid) on 25<sup>th</sup> September which was followed by the special dinner.

Special Lecture by Dr. (Mrs) Neelanjana Singh, President, DUWA: Dr. (Mrs) Neelanjana Singh, the then President, DUWA (Delhi University Women Association), delivered the first specialized talk on the topic “The Secret of Healthy Eating” at 5.30 p.m. on 19.10.2015 in the Hostel Common Room. All the residents attended the lecture followed by the high tea & plantation of tree saplings.

Dusshera Celebration: Dusshera was celebrated on 22<sup>nd</sup> October, 2015 by the hostel residents in a grand way with special dinner and ravanadehan. The residents performed cultural dance and enjoyed the music. The Warden and residents participated in the celebration.

Celebration of Diwali: The festival of lights Deepawali was celebrated on 11<sup>th</sup> November 2015. The hostel was beautifully lit and it was amazing to see Meghdoot in that way. The residents had a gala time and residents decided not to burn crackers and play environment friendly Deepawali. The Warden and residents participated in Laxmi Puja and special dinner served in the hostel.

Election of New Students’ Union: The election for the Meghdoot Hostel Student Union office bearer, i.e. President, Vice-President, General Secretary, Cultural Secretary, Mess Secretary and Sports Secretary was held on 17<sup>th</sup> November 2015. The following members were elected for the Meghdoot Hostel Student Union Office namely Ms. Jyotsana- President, Ms. Shruti Pandey- Vice President, Ms. Namrata Sahu- General Secretary, Ms. Triparna Ghosh- Cultural Secretary, Ms. Preeti Kulhari- Sports Secretary and Ms. Devya Jha- Mess Secretary.

Celebration of Christmas: The residents celebrated Christmas on 25<sup>th</sup> December with special dinner and cake. The celebration began by singing Christmas carols and distributing gifts by the Santa Claus. The function ended with a special dinner and 'gift exchange' among the residents. This marked the end of a wonderful year 2015.

Freshers Party;

In order to facilitate the new residents in the Meghdoot hostel family; a special fresher party was organized by the hostel student union on 31<sup>st</sup> Jan, 2016.

Celebration of Lohri, Pongal & Bihu: The residents celebrated the festivals together with holy fire and residents circling it wishing for happy and prosperous year. The Warden and Steward lighted the holy fire and offered Prasad to all the residents followed by a Punjabi folk dance session.

Republic Day Celebration; Republic Day was celebrated on 26<sup>th</sup> January, 2016. The Tricolour was hoisted by the Warden and she delivered an enthusiastic and patriotic speech also. The Cultural Programme was followed by the residents with songs and dances etc. Sports were arranged which consisted of several games like sack-race, three-legged race & tug of war etc.

Celebration of Saraswati Pooja: On 13<sup>th</sup> February 2016 the residents celebrated Basant Panchami. The Goddess of knowledge Maa Saraswati was worshipped by all the residents together. Prasad was distributed among all the residents and hostel staff.

58<sup>th</sup> Annual Flower Show-2016: Meghdoot Hostel participated in the 58<sup>th</sup> Annual Flower Show held on 26<sup>th</sup> February, 2016 by giving different entries of flowers and lawn and has been awarded the M.M Beg Trophy and the Hansraj College Cup at the event.

Annual Night Function Meghyamini-2016: The most awaited function of the hostel i.e. Meghyamini-2016 was organized on 11<sup>th</sup> March, 2016 by the students union and enthusiastically participated by all residents. Prof. Tarun Kumar Das, Registrar was invited as a Chief Guest, although due to his prior engagement he couldn't attend the function. Sh. Madhur Verma, DCP (North), IPS Guest of Honour grace the occasion. The function was presided over by the Prof. Sushma Batra, Chairperson. All staff and residents were present to cherish the beautiful night, cultural performances and gift distribution. A special dinner was hosted after this.

Celebration of Holi: On 24<sup>th</sup> March 2016 the festival of colour Holi was celebrated in the hostel premises among the residents. Everyone played a safe and colourful Holi. It was greatly enjoyed by the residents.

## **NORTH EASTERN STUDENTS' HOUSE FOR WOMEN**

This was the 14<sup>th</sup> year of the North Eastern Students' House for Women. About 400 students applied for the 101 seats in the hostel. Report of the main events is as follows:

Admission- There are 101 rooms and 1 guest room in the North Eastern Students' House for Women, of which 70 % of the seats are reserved for students from the seven states of the North Eastern Region, and 30 % of the seats are open for students from other states. In 2015-2016, 101 residents were admitted to the hostel. 69 residents were from the North Eastern Region and 32 from the other states. The strength of residents from Assam, Nagaland and Manipur continued to increase.

Activities- The hostel organized a number of activities and invited visitors. Details of these are as follows:

Independence Day was celebrated in the hostel. The flag was hoisted by the residents in the presence of the Provost, Warden, Resident Tutor and Office staff.

The old residents of the hostel organized a welcome party for the new residents on September 9, 2015. There were games followed by dinner and dance.

Diwali was bright and colourful. The hostel was lit up with lights and diyas and decorated with flowers and rangoli done by the residents. Sweets were distributed amongst the residents.

Lohri was celebrated by the residents.

The Post-Christmas function was celebrated with cutting of cake, performance of a choir and exchange of gifts on January 17, 2016.

Republic Day & Sports Day was celebrated in the hostel.

A Fete was organized by the residents to raise funds for the hostel night on February 7, 2016.

The hostel night function was celebrated. Prof. Madhu Vij, Chairperson NESHW was the Chief Guest on March 11, 2016.

The Junior residents of the hostel organized a Farewell party for the old residents on April 8, 2016. There were games followed by dinner and dance.

### **Facilities**

The hostel provides the following facilities to its residents:

A Common room equipped with a LED TV with cable connection, DVD player and Music System. Board games such as chess, carom, etc. are also available. A reading room provided with magazines, newspaper etc. which can also be used by residents for study purposes. A spacious lobby for visitors and residents is available. A laundry room, equipped with a weighing scale, stepper, cycle etc. available for use by the residents between 7:30 a.m. and 9:00 p.m. An outdoor badminton court is there. A total of 4 hotplates, distributed on the various floors are made available to the residents. Three refrigerators for non-vegetarians and two for vegetarians are placed near the common room for use by the residents. A LED TV in the dining hall. A well-maintained garden is a special feature of the Hostel. A Bus Service to ferry the students from the hostel in the Dhaka complex to the Delhi University campus and back. 12 computers, equipped with a broadband connection and housed in an air-conditioned computer room. Round the clock hot water supply through solar power heating is available. Two Hot & Cold water dispensers are available for use by the residents. Four Microwave ovens are available to the residents.

### **P.G. MEN'S HOSTEL**

The Post-Graduate Men's Hostel is a "Hall of Residence" established by and under the jurisdiction of the University of Delhi. It was inaugurated by Professor R.C. Mehrotra, the then Vice Chacellor on 24<sup>th</sup> October.1975. It provides boarding, lodging and other facilities to 100 bonafide full-time, post-graduate male students of the University of Delhi.

Administration-The Hostel is administered by the Provost with the assistance of a Warden and a Resident Tutor who are appointed by Executive Council of the University of Delhi.

Management Committee- The hostel has a Management Committee duly constituted by the University of Delhi. The Management Committee is empowered to lay down the policies/rules regarding duration of stay, allotment of seats

to different disciplines, subjects, categories, resident and guest status and fees etc.. The Committee accepted the request of Mrs. Sudarshan Yadav mother of Late Sh. Ajit Singh Yadav who was a resident of this hostel to create an Endowment Fund for Ajit Singh Yadav Memorial Debate for which the funds will be provided by the mother of Late Sh. Ajit Singh Yadav. Ajit Singh Yadav Memorial Debate was held on 22<sup>nd</sup> April.2015 on the topic: “Liberalisation, Privatisation and Globalisation: Boon or Bane”.

## **RAJIV GANDHI HOSTEL FOR POST GRADUATE GIRLS**

The Rajiv Gandhi Hostel for Girls (RGHG) is a very spacious and beautiful Hostel situated at Dhaka Hostel Complex, Mukherjee Nagar. The Hostel building was constructed by University of Delhi with the financial assistance from Ministry of Development of North Eastern Region (MDONER/NEC) and Ministry of Tribal Affairs (MTA). The Vice Chancellor, Prof. Dinesh Singh inaugurated Hostel Complex on 28<sup>th</sup> June 2012. This Hostel started functioning in July 2012.

The Hostel Complex is by and large a self-sustained residence for women students (post graduate and research scholars) from North East and other parts of India pursuing the education in University of Delhi. The Hostel is divided into 8 clusters, each independent in terms of water supply, rest rooms etc. Each cluster has four floors having a pantry facility in alternate floors, used by the residents for some emergency food preparation.

### **Administration and Management**

The Hostel is managed by a Managing Committee constituted by the University. The Chairperson of the Managing Committee is nominated by the Honorable Vice Chancellor. Major administrative decisions regarding the fee structure, appointment of contractual staff, some issues related to the residents are discussed with the managing committee. Regular meetings, at least two in each academic session, with the managing committee are arranged for sorting out administrative issues and to obtain feedbacks regarding the functioning of the hostel. The internal administration and discipline of the hostel is vested in the Provost. The Provost is assisted by Warden and Resident Tutors and look after the day to day activities.

Administrative assistance is provided by contractual office Staff at the level of section officer and Jr. Asstt. Two Caretakers are employed to take care of all the essential services like water, electricity, civic work etc. The Housekeepers (HK) are responsible to take care of the mess and attendance of the residents.

Cleanliness and maintenance is taken care of by the sanitation services provided by the Sulabh International Social Services Organization. To ensure the safety and security of the residents, the security service personals provided by Knight Watch is employed.

### **Facilities**

There are 386 rooms on twin sharing basis. The Hostel can accommodate 772 students. All rooms are spacious ventilated for the comfortable stay of Hostel residents. All rooms have ceiling fans. Each resident provided with beds one built wardrobe/almirah, book rack mounted on the wall, mirror.

### **Wash Rooms**

Fitted with hot/cold water supply and mirror is available in each bath room.

### **Sports Facilities**

Hostellers interested in sports may avail the sports facilities of the Hostel. The Hostel provides facilities like Badminton Courts, Basketball Courts, Table Tennis, Gymnasium, Yoga and indoor games like Carom,Ludo,Chess etc,

**Pantry:** Every floor in each Cluster is provided with a Pantry. The Pantry has water Coolers. Hot plates are also provided for their use.



**Recreational/Leisure time facilities**

1. There is a spacious common room equipped with recreational facilities such as big screen colour TV with cable connection etc.
2. A projector has been installed to facilitate the residents to arrange for seminars or to view cultural programme.
3. Reading Room and Library.

**Visitors Hall**

There is a well-furnished visitor's room where residents may receive relatives and friends. A LED big screen colour TV with cable connection is installed in the visitor hall.

**Mess and dining Hall**

The mess is run by caterers on contract basis. The Hostel has well maintained dining hall with independent kitchen and hygienic cooking facilities and safe drinking water. Healthy and hygienic food for every resident is provided in the mess.

**Tuck Shop**

There is a Tuck shop in the Hostel which runs on contract basis providing residents tea, coffee, cold drinks and other hygienic light food items as per the requirement of the residents.

**Medical facilities**

The residents of the Hostel get an opportunity to be enrolled as member of the WUS Health Centre maintained by the University of Delhi. WUS provides facilities to all types of basic as well as emergency health treatment. Besides there is a medical room equipped with first aid facilities maintained by the Hostel to help residents at odd hours. In case of medical emergency, the resident is taken to the nearest available Hospital, the local guardian is informed and is required to take charge of his/her ward immediately.

**Lawns and Gardens**

The Hostel has well maintained lawns and gardens that add beauty of the Hostel. It is to be mentioned that the hostel participated in the University Flower Show in 2014 and 2015 and 2016 has won the coveted Library Cup and Lady Shri Ram College for Women Cup consecutive two years

**Additional facilities**

1. CCTV Cameras
2. Guest Rooms.
3. 24 hour security
4. Reverse osmosis (RO)+water cooler drinking water
5. Tailoring and Ironing facility available for the Hostellers.

**Development**

Solar lights have been installed in the Hostel to minimize electricity bill and in the first step towards the development of a green campus.

**Provision of Counseling Service:** Hostel started providing psychological counseling service for the benefit of the residents. The counselor visits the Hostel for two hours at least twice a week..

**Computer Lab:** a modular wooden workstation is prepared and 15 computers are installed in the computer room. Wi-Fi facility is procured for the residents of the Hostel.

Hostel has developed its website [www.rghg-du.in](http://www.rghg-du.in) to start online admission process.

For the convenience of the Hostellers, following purchase has been made during the year 2015-16.

- Library Room is upgraded by purchasing three long reading tables and forty chairs
- Visitor Room is equipped with AC, placing visitor sofa and center tables.
- Concrete cement Benches placed in the open space and in the lawns.
- A conference table is prepared for the committee room of the Hostel.

### **Admission**

Sale of Information Bulletin for session 2015-16 commenced on 14<sup>th</sup> July 2015. The session started with the selection of Students Welfare Association (SWA).

g this period various Cultural activities were held in the hostel with the help of some volunteers and the cultural committee from the residents and the hostel authorities.

### **Distribution of Seats**

The total number of seats in the Hostel is 772. The distribution of seats categories wise is as follows:

Category

For the students from NE states including ST students (Both post Graduate and existing undergraduate) : 300 seats

For ST students including those from North-Eastern states: 200 seats

For general and other reserved categories (Post graduate only): 232 seats

Under Exchange programme (National & International): 40 seats

### **Students Welfare Association (SWA)**

The residents participate in the smooth and efficient functioning of the Hostel to contribute to a harmonious community life. The President, General Secretary and other secretaries are responsible for the daily functioning and residents' welfare in the Hostel.

### **Cultural Activities**

The Hostel celebrated 69<sup>th</sup> Independent day on 15<sup>th</sup> August, 2015 in the Hostel with great zeal. The Honorable Vice Chancellor Prof. Dinesh Singh visited the Hostel and addressed the residents. Sweets distributed among the residents and the staff. The Proctor and other officers of the University were also present on the occasion.

A fresher welcome party was organized with the residents, office staff and hostel Authorities.

The **Diwali** Celebration included the lighting up of the hostel building and a special dinner.

The **Christmas** Celebrations during winter break was celebrated with fun fare. The function of **Lohri** was also celebrated by making bonfire and all the students gave Aahuti on the bonfire. The **Republic Day** was celebrated by hoisting the National Flag followed by the National Anthem. Sweets were distributed among the residents. The **Sarswati Pooja** also celebrated on 12<sup>th</sup> February, 2016 by the residents.

Under the guidance of Hostel authorities one of the major and grand event annual Hostel day "**RAGAAZ -2016**" **organized** on 5<sup>th</sup> March, 2016. Justice Dr. Mukundakam Sharma, Shri Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeetha was Chief Guest and Prof. Anand Prakash, Chairman, Managing Committee was the Guest of honor. The intention behind the cultural event is to encourage and imbibe the Hostellers to come together and to be united. On this day cultural programme is organized. The cultural aspects of different states of India were demonstrated by the excellent dance performances by the residents. It was then followed by dinner.

## **SARAMATI POST GRADUATE MEN'S HOSTEL**

The Saramati Post Graduate Men's Hostel started functioning w.e.f. 1<sup>st</sup> October 2002. It provides residential facility to the students from the north eastern parts of the country studying in University of Delhi as well as other students pursuing academic programmes and bonafide students of South Campus. It is one of the well-equipped hostels of the University.

The hostel has a capacity to accommodate about 130 students it has a spacious dining hall. Each resident in the hostel is provided with a bed mattress, study table, chair, shoe rack and curtains. The hostel provides quality food and quality of the food is constantly monitored. The hostel has also got a double-bedded air-conditioned guest room and a spacious recreation facility and a reading room. The landscape around the Hostel has added to the beauty of hostel campus.

The hostel has a separate computer lab, which is hooked to university network system, to provide computing and internet facility to the residents. During the year 2015-2016 internet facility is modernized to provide faster and more secure network using the state of art Wi-Fi infrastructure. Latest computers and wireless network system have been installed to provide online internet/intranet connectivity to all the residents. The hostel provides excellent sports facilities with indoor and outdoor games like a well-equipped gym, table tennis, badminton, chess and carom etc. Hostel organizes games at the end of the academic session and winners are encouraged with prizes and trophies on the annual day function. A laundry facility with automatic washing machine and dryer is also available for the residents. The Security in the hostel was enhanced during 2015-2016 with installation of CCTV Cameras.

## **UNDER GRADUATE HOSTEL FOR GIRLS**

The hostel was established in October 2012. The hostel is aesthetically designed in a wide campus with 7 blocks with a total of 344 rooms on double occupancy.

It is the first hostel to accommodate students from 49 Colleges/ Departments comprising both the North and South Campus of Delhi University. The hostel is equipped with sports facilities, a reading room, gym, well-furnished common room with LCD facility, visitor room, computer facility and a well-equipped common room with a nurse on duty and doctor's visits thrice a week. Apart from these, a hygienically maintained dining place is there for the residents.

Independence Day, Republic Day, Diwali, Christmas, Lohri and Holi were celebrated in the Hostel. The Freshers' and Farewell functions were also organized by the residents.

The entire building is under CCTV surveillance. Moreover, there are well-maintained lawns for use of the residents. In the session 2015-16, a total of 635 students, belonging to various colleges and categories, were admitted to the hostel.

## **UNIVERSITY HOSTEL FOR WOMEN**

Established in the year 1973, University Hostel for Women (UHW) is an important landmark of the University of Delhi. The Hostel has a capacity of 320 seats for post graduate & research women hailing from various parts of the country and abroad, and provides ample opportunities and occasions for the blossoming of the resplendent spirit of womanhood. The hostel was under renovation since 2012 & reopened with partial admissions in the academic session 2015-2016.

It has always been in the tradition of UHW to hold several functions and celebrations. Due to renovation all festivals were not celebrated. However, the following celebrations were organized in 2015-2016.

Prof. Bharati Baveja, Provost UHW, from Nov 2012 to July 2015 retired from University service. A farewell was organized to express gratitude for her valuable contribution to the hostel. All authorities, residents and staff joined the country in its celebration of Independence Day by singing National Anthem and other patriotic songs.

In accordance with the Swachh Bharat Abhiyan programme announced by the Hon'ble Prime Minister and as part of the drive initiated by University of Delhi for contributing towards the implementation of the vision of the Prime Minister, University Hostel for Women (UHM) took initiative and continued to keep the premises and surrounding area clean. Provost and entire hostel staff and the residents participate in the cleanliness drive.

A small get together was held on Diwali. All the staff and residents admitted for the session 2015-2016 joined the on the occasion.

To mark the end of winter and the beginning of spring, residents celebrated Lohri. A special Punjabi dinner comprising Saag & Makki Ki Roti was prepared that was devoured and relished by the residents.

The celebrations on Republic Day began with flag hoisting by the Provost followed by singing of National anthem, patriotic songs and dance by the residents and karamcharis. The ceremony concluded with a motivating speech by Provost and distribution of sweets.

Residents of the hostel performed saraswati puja on 13<sup>th</sup> February/2016 with great devotion. For the occasion residents made beautiful rangoli with colours and flowers. Residents sang devotional songs, there was Veena recital distribution of Prasad for all.

The festival of colours, Holi was celebrated with organic colours inside the hostel lawn and sweets were distributed.

The year 2015-2016 witnessed the growth not just of individuals but of the institution as a whole.

## **V.K.R.V. RAO HOSTEL**

### **Major activities**

The residents of the hostel celebrated all National Days and festivals with gaiety and fervor to mark an atmosphere of national integrity and cultural amalgamation at the premises.

The session started with celebration of Independence Day with hoisting of the tri-colour flag. The festival of Diwali witnessed pomp and illumination at the premises. Freshers' welcome was organised to welcome the new residents in the hostel. The Hostel residents celebrated Republic Day with ceremonial hoisting of tri-colour flag. They also celebrated Lohri with lot of enthusiasm.

Further, the residents performed Saraswati Puja on the day of Basant Panchami and organized a function of recital of hymns to evoke the goddess of learning.

Hostel Annual Cultured extravaganza UMANG-16 was celebrated on March, 21<sup>st</sup>, 2016. A number of dignitaries, guests and students from other hostels graced the occasion. Later on, the residents with their guests enjoyed the evening with a get-together over dinner.

The hostel hosted Pandit Biswaji Roy Chowdhury, an eminent Sarod Player in SPIC MACAY function. The artist regaled the audience with his scintillating music.

Overall, the year has been productive and full of growth and collective enthusiasm at the VKRV Rao hostel.

## **WUS UNIVERSITY HOSTEL**

The WUS University Hostel is residence for women teachers of the University, Visiting Teachers and Post-Doctoral Researchers, with a capacity of 18 Rooms. The Hostel was taken over by the University from the World University Services in 1990. Prof. (Ms.) Sreemati Chakrabarti is looking after the administration of the Hostel.

The following facilities have been provided to the residents:-

1. Visitor's Room (Air conditioned)
2. Colour T.V.
3. Refrigerators
4. Newspapers (Hindi and English)
5. Water Cooler
6. Computers

The residents celebrate various festivals like Diwali, Christmas, Holi, New Year etc.

The Mess is managed by residents on co-operative basis.

UNIVERSITY OF DELHI  
**ANNUAL ACCOUNTS FOR THE YEAR 2015-16**

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**UNIVERSITY OF DELHI**  
**BALANCE SHEET AS AT 31ST MARCH, 2016**

Particulars	Schedule	Amount in ₹	
		Current Year	Previous Year
<b>SOURCES OF FUNDS</b>			
CORPUS/CAPITAL FUND	1	-----	6990180640
DESIGNATED/ EARMARKED/ ENDOWMENT FUNDS	2	5357432601	4921753268
CURRENT LIABILITIES & PROVISIONS	3	26232916117	8541470803
<b>TOTAL</b>		<b>31590348718</b>	<b>20453404711</b>
<b>APPLICATION OF FUNDS</b>			
<b>FIXED ASSETS</b>			
Tangible Assets	4	1277695518	1352882158
Intangible Assets		4989982	7655275
Capital Works-in-Progress		4065825877	4015825877
<b>INVESTMENT FROM EARMARKED / ENDOWMENT FUNDS</b>	5	345583000	195783000
<b>INVESTMENT – OTHERS</b>	6	-----	-----
<b>CURRENT ASSETS</b>	7	10827860131	10274489001
<b>LOANS, ADVANCES &amp; DEPOSITS</b>	8	4643845213	4606769400
<b>CORPUS/CAPITAL FUND</b>		10424548997	-----
<b>TOTAL</b>		<b>31590348718</b>	<b>20453404711</b>
Significant Accounting Policies	23		
Contingent Liabilities and Notes to Accounts	24		

**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2016**

Particulars	Schedule	Amount in ₹	
		Current Year	Previous Year
<b><u>INCOME</u></b>			
Academic Receipts	9	1029225856	955976585
Grants / Subsidies	10	4703623481	4902810857
Income from Investment	11	18720318	26727341
Interest Earned	12	12445873	13222694
Other Income	13	80645038	92832495
Prior Period Income	14	-----	-----
<b>TOTAL (A)</b>		<b>5844660566</b>	<b>5991569972</b>
<b><u>EXPENDITURE</u></b>			
Staff Payments & Benefits (Establishment expenses)	15	4582273832	3481940216
Academic Expenses	16	483295923	424901368
Administrative and General Expenses	17	837297033	1133635252
Transportation Expenses	18	3654582	5149419
Repairs & Maintenance	19	188886402	175957757
Finance costs	20	376220	418815
Depreciation	4	290791961	331913994
Expenditure on Grants, Subsidies etc.	21	291954779	238399353
Prior Period Expenses	22	16843799499	
<b>TOTAL (B)</b>		<b>23522330231</b>	<b>5792316174</b>
<b>Balance being excess of Income over Expenditure/ (Expenditure over Income) (A- B )</b>		<b>(17677669665)</b>	<b>199253798</b>
<b>Transferred to / from Designated Fund</b>			
<b>Balance being Surplus/(Deficit) carried to Capital Fund</b>		<b>(17677669665)</b>	<b>199253798</b>
Significant Accounting Policies	23		
Contingent Liabilities and Notes to Accounts	24		



**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

<b>SCHEDULE 1 - CAPITAL FUND</b>			<b>Amount in ₹</b>	
		<b>Current Year</b>		<b>Previous year</b>
Balance at the beginning of the year		6990180640		6517073034
Add: Contributions towards Corpus/Capital Fund - Plan A/c		----		----
Add: Contributions towards Corpus/Capital Fund		----		----
Add: Grants from UGC, Government of India and State Government to the extent utilized for capital expenditure				
(a) Plan Accounts	90362873		133193972	
(b) Non-Plan Accounts	<u>81536928</u>	171899801	<u>114607103</u>	247801075
Add: Assets Purchased out of Earmarked Funds				
(a) Miscellaneous Accounts	15750330		7819228	
(b) Other Earmarked Funds	<u>52850925</u>	68601255	<u>8741780</u>	16561008
Add: Assets Purchased out of Sponsored Projects, where ownership vests in the institution				
Add: Assets Donated/Gifts Received	2415		629	
Add: Assets of Project Closed	23920291		11195469	
Add: Other Additions	<u>----</u>	23922706	<u>2757</u>	11198855
Less: Adjustment related to Earmarked Fund				(1200000)
Less: W.D.V. of Assets disposed off during the year		(1483734)		(507130)
Add: Excess of Income over expenditure/(Excess of Expenditure over Income) transferred from the Income & Expenditure Accounts		(17677669665)		199253798
<b>Balance at the year end</b>		<b>(10424548997)</b>		<b>6990180640</b>

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

SCHEDULE 2 - DESIGNATED/EARMARKED/ENDOWMENT FUNDS	Funds wise breakup					Amount in ₹		
	Particulars	Misc. A/c	Publication	Endowment Funds	Admission Processing Charges	Other Earmarked	Total	
							Current Year	Previous Year
<b>A.</b>								
<b>a) Opening balance</b>	<b>387254834</b>	<b>4763995</b>	<b>656688605</b>		<b>96982</b>	<b>3872948852</b>	<b>4921753268</b>	<b>4282041663</b>
b) Additions during the year	0	----	----		----	0	0	154851297
c) Income from investments made of the funds	17972167	266188	39848771		0	212167123	270254249	196157518
d) Accrued Interest on Investments/Advances	16457841	66202	11567587		0	85373737	113465367	148723116
e) Interest on Savings Bank a/c	3069087	38775	1372742		1913	16633833	21116350	23520041
f) Other additions (specify nature)	308122699	330	8410888		0	506431613	822965530	535118787
<b>Total(A)</b>	<b>732876628</b>	<b>5135490</b>	<b>717888593</b>		<b>98895</b>	<b>4693555158</b>	<b>6149554764</b>	<b>5340412422</b>
<b>B.</b>								
<b>Utilization/Expenditure towards objectives of funds</b>								
ii) Capital Expenditure	15750330	----	----		----	52850925	68601255	16561008
ii) Revenue Expenditure	46603796	29	19938475		98895	656879713	723520908	402098146
<b>Total(B)</b>	<b>62354126</b>	<b>29</b>	<b>19938475</b>		<b>98895</b>	<b>709730638</b>	<b>792122163</b>	<b>418659154</b>
<b>Closing balance at the year end (A-B)</b>	<b>670522502</b>	<b>5135461</b>	<b>697950118</b>		<b>0</b>	<b>3983824520</b>	<b>5357432601</b>	<b>4921753268</b>
<b>Represented by</b>								
<b>Cash And Bank Balances</b>								
Current Accounts	3940860	----	----		----	----	3940860	1334039
Saving Accounts	47266474	1669259	29999531		0	284235512	363170776	511079925
Investments	26000000	400000	254600000		----	64500000	345500000	195700000
Fixed Deposit	565320238	3000000	401700000		----	3466560372	4436580610	3918605574
Interest accrued but not due	21831412	66202	11567587		----	85732972	119198173	217298553
Shares	0	----	83000		----	0	83000	83000
Other Loan & Advances	6163518	----	----		----	22347129	28510647	66786423
Loan from UDF to Misc	0	----	----		----	50000000	50000000	----
LC Margin	0	----	----		----	----	0	643000
Electricity Deposits	----	----	----		----	9409500	9409500	9409500
TDS's refundable	0	----	----		----	1039035	1039035	813254
<b>Total</b>	<b>670522502</b>	<b>5135461</b>	<b>697950118</b>		<b>0</b>	<b>3983824520</b>	<b>5357432601</b>	<b>4921753268</b>

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

**SCHEDULE 2A - ENDOWMENT FUNDS**

Amount in ₹

1. Sr. No.	2. Name of the Endowment	Opening Balance		Additions during the Year		Total		9 Expenditure on the object during the year	Closing Balance		Total (10+11)
		3. Endowment	4. Accumulated Interest	5. Endowment (Misc.Receipts)	6. Interest	7. Endowment (3+5)	8. Accumulated Interest (4+6)		10. Endowment	11. Accumulated Interest	
1	Sir Shankar Lal Instt. Of Music (298355)	2257725	73902	16198	156454	2273923	230356	93060	2273923	137296	2411219
2	Shri Sri Ram Chair in physics (298399)	7037749	606649	23800	599239	7061549	1205888	0	7061549	1205888	8267437
3	Shri Shankar Lal Chair in Chemistry (298402)	7872989	686651	21000	671664	7893989	1358315	0	7893989	1358315	9252304
4	IFC Chair in Faculty of Mgmt. studies (298683)	13817970	1348704	45500	1226000	13863470	2574704	57	13863470	2574647	16438117
5	SP Jain Advanced Mgmt. Research (299041)	1951468	118091	1400	172799	1952868	290890	0	1952868	290890	2243758
6	Pt. Man Mohan Nath Dhar (298956)	1265507	104734	0	106292	1265507	211026	29	1265507	210997	1476504
7	Professorship in Economics (298741)	12961431	1129056	10500	1213137	12971931	2342192	0	12971931	2342192	15314123
8	Publication of Orient Insect (299416)	550899	37733	0	40281	550899	78014	0	550899	78014	628913
9	DU Endowment Fund (299733)	179930282	11015072	2604619	15471288	182534901	26486360	5343288	182534901	21143072	203677973
10	Pt. Man Mohan Krishan Kaul (299880)	1523632	114950	3500	129647	1527132	244597	0	1527132	244597	1771729
11	Book Grant RTL (300228)	274306202	18865070	188155	23964710	274494357	42829780	10220290	274494357	32609490	307103847
12	DU Amway Professorship in Enter. Dev. (300705)	11221794	952699	216100	999143	11437894	1951842	200000	11437894	1751842	13189736
13	Cluster Innovation Centre Corpus Fund	100000000	6937646	280000	8010686	100280000	14948332	1539428	100280000	13408904	113688904
14	MHRD IPR CHAIR			5000116	27762	5000116	27762	2542323	2485555	0	2485555
	<b>Total</b>	<b>614697648</b>	<b>41990957</b>	<b>8410888</b>	<b>52789102</b>	<b>623108536</b>	<b>94780059</b>	<b>19938475</b>	<b>620593975</b>	<b>77356143</b>	<b>697950118</b>

Notes

- The total of Columns 3 & 4 will appear as the opening balance in the column "Endowment Funds" in Schedule2, of Earmarked Funds forming part of the Balance Sheet.
- The total of Col.9 should normally be less than the total of Col. 8, as only the interest is to be used for the expenditure on the object of the endowments. ( except Endowments for Chairs)
- There should not normally be a debit balance in the schedule. If in a rare case, there is a debit balance against any of the Endowment Funds, the debit balance should appear on the Assets side of the Balance Sheet as "Receivables", in Schedule-8 Loans, Advances & Deposits.

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

	Amount in ₹	
<b>SCHEDULE 3 - CURRENT LIABILITIES &amp; PROVISIONS</b>	<b>Current year</b>	<b>Previous Year</b>
<b>A. CURRENT LIABILITIES</b>		
1. Deposits from staff	----	----
2. Deposits from students	----	----
3. Sundry Creditors		
a) For Goods	19168355	15385469
b) Others	----	----
4. Deposit-others (including EMD, Security Deposit)	378068	378068
5. Statutory Liabilities (GPF, TDS, WC TAX, CPF, GIS, NPS)		
a) Other Bodies Transaction	719883	1428917
b) Duties & Taxes	16593	5132
6. Other Current Liabilities		
a) Salaries	----	----
b) Receipts against Sponsored Projects	1270313169	1200300810
c) Receipts against Sponsored Fellowships & Scholarships	35279562	80676441
d) Unutilized Grants	7146469470	7156385397
e) Amount refundable to UGC	15873025	14784938
f) Grants in advance	----	----
g) Other funds	67972682	66757739
h) ACBR liabilities	----	----
i) Other liabilities	56000000	3531680
<b>Total (A)</b>	<b>8612190807</b>	<b>8539634591</b>
<b>B. Provisions</b>		
1. For Taxation	----	----
2. Gratuity	1086698993	----
3. Superannuation Pension	15517616630	----
4. Accumulated Leave Encashment	1015840343	----
5. Trade Warranties/Claims	----	----
6. Others (Specify)/Expenses Payable	569344	1836212
<b>Total (B)</b>	<b>17620725310</b>	<b>1836212</b>
<b>Total (A+B)</b>	<b>26232916117</b>	<b>8541470803</b>

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

**SCHEDULE - 3 (a) SPONSORED PROJECTS**

							Amount in ₹	
1	2	3	4	5	6	7	8	
Sr. No.	Name of the Project	Opening Balance		Receipts/Recoveries during the year	Total	Expenditure during the year	Closing Balance	
		Credit	Debit				Credit	Debit
1	Research Scheme A/c (298650)	430088616		216961483	647050099	240368664	406681435	
2	IASE Scheme A/c (Educ) (295853)	2537553		190886	2728439	1096128	1632311	
3	Research Scheme A/c (SDC)( 546386)	586724275		260679757	847404032	231208266	616195766	
4	B.R.A. Project A/c (298264)	31113283		34683916	65797199	25343830	40453369	
5	Young Research Scientist A/c (298593)	129222504		113677073	242899577	57852855	185046722	
6	CEMDE\Bio-Diversity Park (DDA)	20614579		45273721	65888300	45584734	20303566	
<b>Total</b>		<b>1200300810</b>		<b>671466836</b>	<b>1871767646</b>	<b>601454477</b>	<b>1270313169</b>	

1. The Projects may be listed agency-wise, with sub-totals for each agency.
2. The total of Col. (credit) will appear under the above head on the liabilities side of the Balance Sheet (Schedule 3).
3. The total of Col. 9 (Debit) will appear as Receivables in Schedule 8, Loans, Advances and Deposits, on the Assets side of the Balance Sheet.

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

**SCHEDULE 3(b) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS**

Sr. No	Name of Sponsor	Opening Balance As on 01.04.15		Transactions During the year		Closing Balance As On 31.03.16	
		3	4	5	6	7	8
		CR.	DR.	CR.	DR.	CR.	DR.
1	CSIR Fellowship (298413)	35564290		65325345	86049622	14840013	
2	UGC Fellowship (298560)	22235478		191397624	235445691	0	21812589
3	Other Bodies Scholarship (298707)	17023884		32116374	29780533	0	
4	CSIR Fellowship (SDC) (545269)	1939810		15298682	16966714	271778	
5	UGC Fellowship (SDC) (545258)	3912979		10000000	13104933	808046	
	<b>Total</b>	<b>80676441</b>		<b>314138025</b>	<b>381347493</b>	<b>35279562</b>	<b>21812589</b>

Note:

1. The total of Column 7, (Credit) will appear under the above head, on the liabilities side of the Balance Sheet (Schedule 3).
2. The total of Column 8 (Debit) will appear as Receivables on the Assets side of the Balance Sheet in Schedule 8 (Loans, Advances and Deposits).

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

**SCHEDULE 3(c) UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS**

	<b>Current Year</b>		<b>Amount in ₹</b>
			<b>Previous Year</b>
<b>A. Plan grants: Government of India</b>			
Balance B/F			
Add: Receipts during the year			
<b>Total(a)</b>	0		0
<b>Less: Refunds</b>			
<b>Less: Utilized for Revenue Expenditure</b>			
<b>Less: Utilized for Capital Expenditure</b>			
<b>Total (b)</b>	0		0
<b>Unutilized carried forward (a-b)</b>	0		0
<b>B. UGC grants Plan</b>			
Balance B/F	7156385397		7346106930
Add: Receipts during the year	526128355		381134399
<b>Total(c)</b>	7682513752		7727241329
<b>Less: Refunds</b>	0		
<b>Less: Utilized for Revenue Expenditure</b>	445681409		437661960
<b>Less: Utilized for Capital Expenditure</b>	90362873		133193972
<b>Total (d)</b>	536044282		570855932
<b>Unutilized carried forward (c-d)</b>	<b>7146469470</b>		<b>7156385397</b>

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

Amount in ₹

**C. UGC Grants non-Plan**

Balance B/F	0	
Add: Receipts during the year	4339479000	4579756000
<b>Total(e)</b>	<b>4339479000</b>	<b>4579756000</b>
<b>Less: Refunds</b>	<b>0</b>	<b>0</b>
<b>Less: Utilized for Revenue Expenditure</b>	<b>4257942072</b>	<b>4461845758</b>
<b>Less: Utilized for Capital Expenditure</b>	<b>81536928</b>	<b>117910242</b>
<b>Total (f)</b>	<b>4339479000</b>	<b>4579756000</b>
<b>Unutilized carried forward (e-f)</b>	<b>0</b>	<b>0</b>
<b>D. Grants from state govt.</b>		
Balance B/F	0	0
Add: Receipts during the year	0	0
<b>Total(g)</b>	<b>0</b>	<b>0</b>
<b>Less: Refunds</b>		
<b>Less: Utilized for Revenue Expenditure</b>	0	0
<b>Less: Utilized for Capital Expenditure</b>	0	0
<b>Total (h)</b>	<b>0</b>	<b>0</b>
<b>Unutilized carried forward (g-h)</b>	<b>0</b>	<b>0</b>
<b>Grand Total(A+B+C+D)</b>	<b>7146469470</b>	<b>7156385397</b>

## Notes:-

Unutilized grants includes advances on Capital Account

Unutilized grants include grants received in advance for the next year

Unutilized grants are represented on the Assets side by Bank balances, Short term Deposits with Banks and Advances on Capital Account



**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

**SCHEDULE 4 - FIXED ASSETS**

Sr.No.	Assets Heads	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation for the year	W.D.V. as at 31.03.2016	W.D.V. as at 31.03.2015
1	Land		19716892	0	0	19716892	0	19716892	19716892
2	Site Development/Minor work		0	0	0	0	0	0	0
3	Buildings	5%	717493144	40289069	0	757782213	37889111	719893102	717493144
4	Roads & Bridges		0	0	0	0	0	0	0
5	Tube wells & Water Supply		0	0	0	0	0	0	0
6	Sewerage & Drainage		0	0	0	0	0	0	0
7	Electrical installation and equipment		0	0	0	0	0	0	0
8	Plant & Machinery	20%	234357510	34508883	1263933	267602460	53520492	214081968	234357510
9	Scientific & Laboratory Equipment	40%	135934853	56891932	44514	192782271	77112908	115669363	135934853
10	Office Equipment		0	0	0	0	0	0	0
11	Audio Visual Equipment	50%	123257	723385	11	846631	423316	423315	123257
12	Computers & Peripherals	40%	95926938	29497294	44791	125379441	50151776	75227665	95926938
13	Furniture, Fixtures & Fittings	25%	103019606	16746333	130433	119635506	29908877	89726629	103019606
14	Sports Equipment	50%	100341	14753	0	115094	57547	57547	100341
15	Vehicles	25%	2357123	6601	52	2363672	590918	1772754	2357123
16	Lib. Books & Scientific Journals	50%	40542494	35090071	0	75632565	37816282	37816283	40542494
17	Small Value Assets		0	0	0	0	0	0	0
18	Work of Art		3310000	0	0	3310000	0	3310000	3310000
<b>Total (A)</b>			<b>1352882158</b>	<b>213768321</b>	<b>1483734</b>	<b>1565166745</b>	<b>287471227</b>	<b>1277695518</b>	<b>1352882158</b>
<b>19</b>	<b>Capital Work in Progress (B)</b>		<b>4015825877</b>	<b>50000000</b>	<b>0</b>	<b>4065825877</b>	<b>0</b>	<b>4065825877</b>	<b>4015825877</b>
Sr.No.	Intangible Assets	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Amortization for the year	W.D.V. as at 31.03.2016	W.D.V. as at 31.03.2015
20	Computer Software	40%	7631594	655441	0	8287035	3314814	4972221	7631594
21	E-journals	25%	0	0	0	0	0	0	0
22	Patents	25%	23681	0	0	23681	5920	17761	23681
<b>Total (C)</b>			<b>7655275</b>	<b>655441</b>	<b>0</b>	<b>8310716</b>	<b>3320734</b>	<b>4989982</b>	<b>7655275</b>
<b>Grand Total (A+B+C)</b>			<b>5376363310</b>	<b>264423762</b>	<b>1483734</b>	<b>5639303338</b>	<b>290791961</b>	<b>5348511377</b>	<b>5376363310</b>
<b>Previous year (2014-15)</b>			<b>5435665265</b>	<b>326753259</b>	<b>54141220</b>	<b>5708277304</b>	<b>331913994</b>	<b>5376363310</b>	

**Note:** The figure in Column 'Deductions' under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year.

The figure in column 'Additions during the year under Gross Block against Assets 1 to 14 include transfer from Work in Progress during the year, as well as further acquisitions during the year.

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

**SCHEDULE 4A - PLAN**

Amount in ₹

Sr.No.	Assets Heads	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation for the year	W.D.V. as at 31.03.2016	W.D.V. as at 31.03.2015
1	Land		0	0	0	0	0	0	0
2	Site Development/Minor work		0	0	0	0	0	0	0
3	Buildings	5%	261502153	30892589	0	292394742	14619737	277775005	261502153
4	Roads & Bridges		0	0	0	0	0	0	0
5	Tube wells & Water Supply		0	0	0	0	0	0	0
6	Sewerage & Drainage		0	0	0	0	0	0	0
7	Electrical installation and Equipment		0	0	0	0	0	0	0
8	Plant & Machinery	20%	121116889	11584742	0	132701631	26540326	106161305	121116889
9	Scientific & Laboratory Equipment	40%	83124248	25504583	0	108628831	43451532	65177299	83124248
10	Office Equipment		0	0	0	0	0	0	0
11	Audio Visual Equipment	50%	103893	299600	0	403493	201747	201746	103893
12	Computers & Peripherals	40%	60459613	16393507	0	76853120	30741248	46111872	60459613
13	Furniture, Fixtures & Fittings	25%	39692885	1997684	0	41690569	10422642	31267927	39692885
14	Sports Equipment	50%	0	0	0	0	0	0	0
15	Vehicles	25%	732586	0	0	732586	183147	549439	732586
16	Lib. Books & Scientific Journals	50%	4994239	3690168	0	8684407	4342204	4342203	4994239
17	Small Value Assets		0	0	0	0	0	0	0
18	Work of Art		1310000	0	0	1310000	0	1310000	1310000
<b>Total (A)</b>			<b>573036506</b>	<b>90362873</b>	<b>0</b>	<b>663399379</b>	<b>130502583</b>	<b>532896796</b>	<b>573036506</b>
19	<b>Capital Work in Progress (B)</b>		<b>804296182</b>	<b>0</b>	<b>0</b>	<b>804296182</b>	<b>0</b>	<b>804296182</b>	<b>804296182</b>
Sr.No.	Intangible Assets	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Amortization for the year	W.D.V. as at 31.03.2016	W.D.V. as at 31.03.2015
20	Computer Software	40%	0	0	0	0	0	0	0
21	E-journals	25%	0	0	0	0	0	0	0
22	Patents	25%	0	0	0	0	0	0	0
<b>Total (C)</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Grand Total (A+B+C)</b>			<b>1377332688</b>	<b>90362873</b>	<b>0</b>	<b>1467695561</b>	<b>130502583</b>	<b>1337192978</b>	<b>1377332688</b>
<b>Previous year (2014-15)</b>			<b>1402667074</b>	<b>184389049</b>	<b>51385077</b>	<b>1535671046</b>	<b>158338358</b>	<b>1377332688</b>	

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

SCHEDULE 4B - NON PLAN								Amount in ₹	
Sr.No.	Assets Heads	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation for the year	W.D.V. as at 31.03.2016	W.D.V. as at 31.03.2015
1	Land		19716892	0	0	19716892	0	19716892	19716892
2	Site Development/Minor work		0	0	0	0	0	0	0
3	Buildings	5%	370564634	7904692	0	378469326	18923466	359545860	370564634
4	Roads & Bridges		0	0	0	0	0	0	0
5	Tube wells &Water Supply		0	0	0	0	0	0	0
6	Sewerage & Drainage		0	0	0	0	0	0	0
7	Electrical installation and Equipment		0	0	0	0	0	0	0
8	Plant & Machinery	20%	79205006	13793178	1263933	91734251	18346850	73387401	79205006
9	Scientific & Laboratory Equipment	40%	18242274	6618748	44514	24816508	9926603	14889905	18242274
10	Office Equipment		0	0	0	0	0	0	0
11	Audio Visual Equipment	50%	10697	62197	11	72883	36442	36441	10697
12	Computers & Peripherals	40%	29562545	10173199	44791	39690953	15876381	23814572	29562545
13	Furniture, Fixtures & Fittings	25%	53028847	11698453	130433	64596867	16149217	48447650	53028847
14	Sports Equipment	50%	99968	14753	0	114721	57361	57360	99968
15	Vehicles	25%	1624537	6600	52	1631085	407771	1223314	1624537
16	Lib. Books & Scientific Journals	50%	34618795	30796030	0	65414825	32707413	32707412	34618795
17	Small Value Assets		0	0	0	0	0	0	0
18	Work of Art		0	0	0	0	0	0	0
<b>Total (A)</b>			<b>606674195</b>	<b>81067850</b>	<b>1483734</b>	<b>686258311</b>	<b>112431504</b>	<b>573826807</b>	<b>606674195</b>
<b>19</b>	<b>Capital Work in Progress (B)</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Sr.No.	Intangible Assets	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Amortization for the year	W.D.V. as at 31.03.2015	W.D.V. as at 31.03.2014
20	Computer Software	40%	7631594	469078	0	8100672	3240269	4860403	7631594
21	E-journals	25%	0	0	0	0	0	0	0
22	Patents	25%	23681	0	0	23681	5920	17761	23681
<b>Total (C)</b>			<b>7655275</b>	<b>469078</b>	<b>0</b>	<b>8124353</b>	<b>3246189</b>	<b>4878164</b>	<b>7655275</b>
<b>Grand Total (A+B+C)</b>			<b>614329470</b>	<b>81536928</b>	<b>1483734</b>	<b>694382664</b>	<b>115677693</b>	<b>578704971</b>	<b>614329470</b>
<b>Previous year (2014-15)</b>			<b>630685924</b>	<b>114607103</b>	<b>1746143</b>	<b>743546883</b>	<b>129217414</b>	<b>614329470</b>	

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

**SCHEDULE 4 C - INTANGIBLE ASSETS**

									Amount in ₹
Sr.No.	Assets Heads	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation/Amortization for the year	W.D.V. as at 31.03.2016	W.D.V. as at 31.03.2015
1	Patents & Copyrights	25%	23681	0	0	23681	5920	17761	23681
2	Computer Software	40%	7631594	655441	0	8287035	3314814	4972221	7631594
3	E-Journals	25%	0	0	0	0	0	0	0
<b>Total</b>			7655275	655441	0	8310716	3320734	4989982	7655275
<b>Previous year (2014-15)</b>			<b>31575</b>	<b>12719324</b>	<b>0</b>	<b>12750899</b>	<b>5095624</b>	<b>7655275</b>	

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

						Amount in ₹			
<b>SCHEDULE 4( C) (I) PATENTS AND COPYRIGHTS</b>				<b>Op. Balance</b>	<b>Addition</b>	<b>Gross</b>	<b>Amortization</b>	<b>Net Block 20.....</b>	<b>Net Block 20.....</b>
<b>A. Patents Granted</b>									
1.	Balance as on 31.03.14 of Patents obtained in 2008-09 (Original Value - Rs.../-)	----	----	----	----	----	----	----	----
2.	Balance as on 31.03.14 of Patents obtained in 2010-11 (Original Value - Rs.../-)	----	----	----	----	----	----	----	----
3.	Balance as on 31.03.14 of Patents obtained in 2012-13 (Original Value - Rs.../-)	----	----	----	----	----	----	----	----
4.	Patents granted during the Current Year	----	----	----	----	----	----	----	----
<b>Total</b>		----	----	----	----	----	----	----	----
<b>Particulars</b>				<b>Op. Balance</b>	<b>Addition</b>	<b>Gross</b>	<b>Patents Granted/Rejected</b>	<b>Net Block 2013-14</b>	<b>Net Block 2012-13</b>
<b>A. Patents Pending in respect of Patents applied for</b>									
1.	Expenditure incurred during 2009-10 to 2011-12	----	----	----	----	----	----	----	----
2.	Expenditure incurred during 2012-13	----	----	----	----	----	----	----	----
3.	Expenditure incurred during 2013-14	----	----	----	----	----	----	----	----
<b>Total</b>		----	----	----	----	----	----	----	----
<b>C. Grand Total (A+B)</b>		----	----	----	----	----	----	----	----

Note : The Addition in Part A (Patents granted), will be the figure of patents granted during the year, transferred from Part B (column-Patents granted/rejected). The amount against grants rejected during the year is written off in the income and Expenditure Account

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

**SCHEDULE 4D - OTHERS**

Amount in ₹

Sr.No.	Assets Heads	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation for the year	W.D.V. as at 31.03.2016	W.D.V. as at 31.03.2015
1	Land		0	0	0	0	0	0	0
2	Site Development/Minor work		0	0	0	0	0	0	0
3	Buildings	5%	85426357	1491788	0	86918145	4345907	82572238	85426357
4	Roads & Bridges		0	0	0	0	0	0	0
5	Tube wells & Water Supply		0	0	0	0	0	0	0
6	Sewerage & Drainage		0	0	0	0	0	0	0
7	Electrical installation and Equipment		0	0	0	0	0	0	0
8	Plant & Machinery	20%	34035615	9130963	0	43166578	8633316	34533262	34035615
9	Scientific & Laboratory Equipment	40%	34568330	24768601	0	59336931	23734772	35602159	34568330
10	Office Equipment		0	0	0	0	0	0	0
11	Audio Visual Equipment	50%	8666	361588	0	370254	185127	185127	8666
12	Computers & Peripherals	40%	5904781	2930588	0	8835369	3534148	5301221	5904781
13	Furniture, Fixtures & Fittings	25%	10297873	3050196	0	13348069	3337017	10011052	10297873
14	Sports Equipment	50%	372	0	0	372	186	186	372
15	Vehicles	25%	0	1	0	1	0	1	0
16	Lib. Books & Scientific Journals	50%	929459	603873	0	1533332	766666	766666	929459
17	Small Value Assets		0	0	0	0	0	0	0
18	Work of Art		2000000	0	0	2000000	0	2000000	2000000
<b>Total (A)</b>			<b>173171453</b>	<b>42337598</b>	<b>0</b>	<b>215509051</b>	<b>44537139</b>	<b>170971912</b>	<b>173171453</b>
<b>19</b>	<b>Capital Work in Progress (B)</b>		<b>3211529695</b>	<b>50000000</b>	<b>0</b>	<b>3261529695</b>	<b>0</b>	<b>3261529695</b>	<b>3211529695</b>
Sr.No.	Intangible Assets	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Amortization for the year	W.D.V. as at 31.03.2016	W.D.V. as at 31.03.2015
20	Computer Software	40%	0	186363	0	186363	74545	111818	0
21	E-journals	25%	0	0	0	0	0	0	0
22	Patents	25%	0	0	0	0	0	0	0
<b>Total (C)</b>			<b>0</b>	<b>186363</b>	<b>0</b>	<b>186363</b>	<b>74545</b>	<b>111818</b>	<b>0</b>
<b>Grand Total (A+B+C)</b>			<b>3384701148</b>	<b>92523961</b>	<b>0</b>	<b>3477225109</b>	<b>44611684</b>	<b>3432613425</b>	<b>3384701148</b>

Note : The additions during the year include additions from :

Gifted	2415
Project Close	23920291
Misc. Accounts Fund	15750330
Other Earmarked Fund	52850925
<b>Total</b>	<b>92523961</b>

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

<b>SCHEDULE 5 - INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS</b>	<b>Amount in ₹</b>	
	<b>Current Year</b>	<b>Previous Year</b>
1. In Central Government Securities	345500000	195700000
2. In State Government Securities	-----	-----
3. Other approved Securities	-----	-----
4. Shares	83000	83000
5. Debentures and Bonds	-----	-----
6. Term Deposits with Banks	-----	-----
7. Others (to be specified)	-----	-----
<b>Total</b>	<b>345583000</b>	<b>195783000</b>

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

**SCHEDULES 5 (A) INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS (FUNDS WISE)**

Sl. No.	Funds	Amount in ₹	
		Current Year	Previous Year
1	Misc. Accounts - Govt. Securities	26000000	26000000
2	Publications - Govt. Securities	400000	100000
3	Endowment Fund - Govt. Securities	254600000	134500000
4	Other Earmarked Fund - Govt. Securities	64500000	35100000
5	Endowment Fund - Shares	83000	83000
<b>Total</b>		<b>345583000</b>	<b>195783000</b>



**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

<b>SCHEDULE 6 - INVESTMENT -OTHERS</b>	<b>Amount in ₹</b>	
	<b>Current Year</b>	<b>Previous Year</b>
1. In Central Government Securities		
2. In State Government Securities	----	----
3. Other approved Securities	----	----
4. Shares	----	----
5. Debentures and Bonds	----	----
6. Other (to be specified)	----	----
<b>TOTAL</b>	----	----

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

	Amount in ₹	
<b><u>SCHEDULE 7 - CURRENT ASSETS</u></b>	<b>Current Year</b>	<b>Previous Year</b>
<b>1. Stock</b>		
a) Stores and Spares	----	----
b) Loose Tools	----	----
c) Publication	----	----
d) Laboratory chemicals, consumables and glass ware	----	----
e) Building material	----	----
f) Electrical material	----	----
g) Stationery	----	----
h) Water supply material	----	----
<b>2. Sundry Debtors :</b>		
a) Others Outstanding for a period exceeding six months	----	----
b) Others	----	----
<b>3. Cash and Bank Balance</b>		
<b>a) With Scheduled Banks :</b>		
-In Current Accounts	69881547	192009972
-In Term Deposit Accounts	9716383113	7219616295
-In Savings Accounts	1040611971	2861835734
<b>b) With non-Scheduled Banks :</b>		
-In Term Deposit Accounts	----	----
-In Savings Accounts	----	----
<b>c) Cash Balance in hand (including cheques\drafts) :</b>	983500	1027000
<b>4. Post Office Savings Accounts</b>	----	----
<b>TOTAL</b>	<b>10827860131</b>	<b>10274489001</b>

**Note : Annexure "A" shows the details of Bank Accounts**

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

**Annexure "A"**  
**Amount in ₹**

<b>I</b>	<b>Current Account</b>	<b>Current Year</b>	<b>Previous Year</b>
		-	-
1	B R Ambedkar Centre General Fund A/c	8189	11976
2	ICICI Bank A/c	11231597	11231914
3	SBI Law Centre II	45824	1246193
4	SBI MG I	9934317	60898115
5	SBI MG II	6497782	321823
6	SBI MG III	18215818	43508862
7	SDC Examination A/c	3754753	7355075
8	SDC General Fund A/c	764492	3590845
9	Sponsored Project Bank A/c	1632311	2537553
10	Plan Current A/c	13855603	59973576
11	Current A/cs of Earmarked Fund	3940860	1334039
		<b>69881547</b>	<b>192009972</b>
<b>II</b>	<b>Savings Bank Accounts</b>		
1	External Candidate Cell A/c	5382691	5002054
2	NCWEB A/c	4583219	2102710
3	SBI Departmental Receipt A/c	799244	5140817
4	SBI General Fund A/c	374329796	926248441
5	SBI Medical Reimbursement A/c	3432754	7133079
6	Sponsored Project Bank A/c	168115128	286725178
7	Sponsored Fellowship and Scholarship	63090664	52780432
8	Plan Savings A/c	57702884	1065434138
9	Savings A/cs of Earmarked Fund	363170776	511079925
10	CPF Account refundable to UGC	4815	188960
		<b>1040611971</b>	<b>2861835734</b>
<b>III</b>	<b>Term Deposit Accounts</b>		
1	FDR from Earmarked Fund	4436580610	3919248574
2	FDR from UGC Refundable A/c	15685000	14400000
3	FDR from ACBR A/c	703553	709802
4	FDR from Social Work A/c	2660351	2660351
5	FDR from Maintenance Grants	830000000	-----
6	Sponsored Project Bank A/c	934498766	737932971
7	Sponsored Fellowship and Scholarship	-----	27000000
8	FDR From Plan A/c (including margin money)	3496254833	2517664597
		<b>9716383113</b>	<b>7219616295</b>

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2016**

<b>SCHEDULE 8 - LOANS, ADVANCES &amp; DEPOSITS</b>	<b>Current Year</b>	<b>Amount in ₹ Previous Year</b>
<b>1. Advances to employees (Non-interest bearing)</b>		
a) Salary	-----	-----
b) Festival	1351902	1252353
c) Medical Advance	504000	-----
d) Leave Travel Concession	6518738	2526270
e) Other (to be specified)	-----	-----
<b>2. Long Term Advances to employees (Interest bearing)</b>		
a) Vehicle Loan/Conveyance/Computer	1302085	1504599
b) Home Loan/HBA	2678255	3777905
c) Others (to be specified)	-----	-----
<b>3. Advances and other amounts recoverable in cash or in kind or for value to be received</b>		
a) On Capital Account	-----	-----
b) to Suppliers	-----	-----
c) Delhi University Pension Accounts	2980000	2980000
d) Delhi University Press	17395000	17395000
e) Sir Shankar Lal Chair in Chemistry Fund A/c	1100000	1100000
f) Other Advance out of Earmarked Funds	24530307	61503919
g) Other Advance out of Maintenance Grant A/c	589657643	532398249
h) Other Advances out of Sponsored Projects	165865271	129821226
i) Advance from Plan A/c	3413653773	3381092587
j) Others	1063463	867417
<b>4. Prepaid Expenses</b>		
a) Insurance	-----	-----
b) Other Expenses	31302664	51810275
<b>5. Deposits</b>		
a) Telephone	-----	-----
b) Lease Rent	-----	-----
c) Electricity	20794500	20794500
d) AICTE, if applicable	-----	-----
e) DESU (Security)	4795	4795
f) Others	52373	502373
<b>6. Income Accrued:</b>		
a) On Investments from Earmarked/Endowment Funds	119198173	217298553
b) On Investments from ACBR/ UGC Refundable A/c	210917	263111

c) On Investments from UGC Refundable A/c	183210	----
d) On Investments from Sponsored Projects	56201693	43283881
e) On Investments from Sponsored Fellowship and Scholarship	376309	896009
f) On Investments from Plan	165002377	135696379
g) On Loans and Advances	----	----
h) Others (includes income due unrealized)	----	----
<b>7. Other - Current Assets receivable from UGC/sponsored projects</b>		
a) Debit balances in Sponsored Projects	----	----
b) Debit balances in Sponsored Fellowships & Scholarships	21812589	----
c) Grants Receivable	----	----
d) Other receivables	105176	----
<b>8. Claims Receivable</b>	----	----
<b>TOTAL</b>	<b>4643845213</b>	<b>4606769400</b>

**Note :**

1. If revolving funds have been created for House Building, Computer and Vehicle advances to employees, the advances will appear as part of Earmarked/Endowment Funds. The balances against these interest -bearing advances will not appear in this schedule.

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2016**

<b>SCHEDULE - 9 ACADEMIC RECEIPTS</b>	<b>Current Year</b>	<b>Amount in ₹ Previous Year</b>
<b>FEES FROM STUDENTS</b>		
<b>Academic</b>		
1. Tuition fee	12748817	11626254
2. Admission Fee	5304278	19308858
3. Enrolment fee	66067298	32961333
4. Library Admission fee	744536	733979
5. Laboratory fee	85738	113440
6. Sports and Athletic Association Fee	10856058	8681460
7. Computer Fee	228000	239000
8. Arts & Craft Fee	----	----
9. Registration fee	39150	----
10. Syllabus fee	----	----
11. Other Fees	145544277	15644023
<b>Total (A)</b>	<b>241618152</b>	<b>89308347</b>
<b>Examinations</b>		
1. Admission Test Fee	----	----
2. Annual Examination Fee	698972386	784137855
3. Mark sheet, certificate Fee	14018100	15163880
4. Entrance Examination Fee	60551778	49062166
<b>Total (B)</b>	<b>773542264</b>	<b>848363901</b>
<b>Other Fees</b>		
1. Identity card Fee	----	----
2. Fine/Miscellaneous Fee	----	----
3. Medical Fee	----	----
4. Transportation Fee	----	----
5. Hotel Fee	----	----
<b>Total (C)</b>	<b>0</b>	<b>0</b>
<b>Sale of Publications</b>		
1. Sale of Admission forms		----
2. Sale of syllabus and Question Paper, etc.	----	----
3. Sale of prospectus including admission forms	14065440	18304337
<b>Total (D)</b>	<b>14065440</b>	<b>18304337</b>

**Other Academic Receipts**

1. Registration fee for workshops, programmes

-----

2. Registration fees (Academic Staff College)

-----

-----

**Total (E)**

0

0

**GRAND TOTAL (A+B+C+D+E)****1029225856****955976585**

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2016**

**SCHEDULE 10- GRANTS/SUBSIDIES (IRREVOCABLE GRANTS RECEIVED)**

Particulars	Govt. of India	Plan		Total Plan	Non Plan UGC	Current Year Total	Previous Year Total
		Plan	UGC Specific Schemes				
Balance B/F		<b>7156385397</b>		7156385397		7156385397	7346106930
Add: Receipts during the year		526128355	0	526128355	4339479000	4865607355	4960890399
<b>Total</b>		7682513752	0	7682513752	4339479000	12021992752	12306997329
Less : Refund to UGC Balance				0		0	0
Less : Utilized for Capital expenditure (A)		90362873	0	90362873	81536928	171899801	247801075
<b>Balance</b>		7592150879	0	7592150879	4257942072	11850092951	12059196254
<b>Less: utilized for Revenue Expenditure (B)</b>		<b>445681409</b>	<b>0</b>	<b>445681409</b>	4257942072	<b>4703623481</b>	<b>4902810857</b>
<b>Balance C/F (C)</b>	<b>-</b>	<b>7146469470</b>	<b>0</b>	<b>7146469470</b>	<b>0</b>	<b>7146469470</b>	<b>7156385397</b>

- A- Appears as addition to Capital Fund as well as additions to Fixed Assets during the year.  
 B- Appears as income in the Income & Expenditure Account.  
 C- (I) Appears under Current Liabilities in the Balance Sheet and will become the opening balance next year.



**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2016**

SCHEDULE 11- INCOME FROM INVESTMENTS	Amount in ₹			
	Earmarked/Endowment Funds		Other Investments	
	Current Year	Previous Year	Current Year	Previous Year
<b>1. Interest</b>				
a. On Government Securities	----	----	----	----
b. Other Bonds/Debentures	----	----	----	----
<b>2. Interest on Term Deposits</b>	383719616	344880634	18720318	26727341
<b>3. Income accrued but not due on Term Deposits/Interest bearing advances to employees.</b>	----	----	----	----
<b>4. Interest on Saving Bank Accounts</b>	21116350	23520041	----	----
<b>5. Others (Specify)</b>	----	----	----	----
<b>Total</b>	<b>404835966</b>	<b>368400675</b>	<b>18720318</b>	<b>26727341</b>
<b>Transferred to Earmarked/Endowment Funds</b>	<b>404835966</b>	<b>368400675</b>		

Note: Interest accrued but not due on Term Deposits from HBA Fund, conveyance advance fund and Computer Advance fund and on interest bearing advances to employees will be included here (Item 3), only where Revolving funds (EMF) for such advances have been set up.

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2016**

<b>SCHEDULE 12 - INTEREST EARNED</b>	<b>Amount in ₹</b>	
	<b>Current Year</b>	<b>Previous Year</b>
<b>1. On Savings Accounts with scheduled banks</b>	12445873	13222694
<b>2. On Loans</b>		
a. Employee/Staff	----	----
b. Others	----	----
<b>3. On Debtors and Other Receivables</b>	----	----
<b>Total</b>	<b>12445873</b>	<b>13222694</b>

**Note:**

1. The amount against item 1, in respect of Bank Accounts of Earmarked/Endowment Funds is deal with in Schedule 11 (First Part) and Schedule 2.
2. Item 2(a) is applicable only if Revolving funds have not been constituted for suchh advances.

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2016**

**SCHEDULE 13 - OTHER INCOME**

	Amount in ₹	
	Current Year	Previous Year
<b>A. Income from Land &amp; Building</b>		
1. Rent from Building/Land etc.	4397265	13753253
2. License fee	11347017	9526158
3. Hire Charges of Auditorium/Play ground/Convention Centre, etc.	----	----
4. Electricity charges recovered	----	----
5. Water charges recovered	----	----
<b>Total (A)</b>	<b>15744282</b>	<b>23279411</b>
<b>B. Sale of Institute's publications</b>		
<b>C. Income from holding events</b>		
1. Gross Receipts from annual function/sports carnival	----	----
Less : Direct expenditure incurred on the annual function/sports carnival		
2. Gross Receipts from fest	----	----
Less : Direct expenditure incurred on the fest		
3. Gross Receipts for educational tours	----	----
Less : Direct expenditure incurred on the tours		
4. Others (to be specified and separately disclosed)	----	----
<b>Total (C)</b>		
<b>D. Others</b>		
1. Income from consultancy	----	----
2. RTI fee	26965	190797
3. Income from Royalty	----	----
4. Sale of application form (recruitment)	7650	9200
5. Misc. receipts (Sale of tender form, waste paper, etc.)	879624	3542202
6. Profit on Sale/disposal of Assets		
a) Owned assets	----	----
b) Assets received free of cost	----	----

7.Grants/Donations from Institutions, Welfare Bodies and International Organizations	-----	-----
8. Health Centre Contribution	31579859	31502492
9. Leave Salary & Pension Contribution	17814448	14408400
10. Others (Specify)	14592210	19899993
<b>Total (D)</b>	<b>64900756</b>	<b>69553084</b>
<b>GRAND TOTAL (A+B+C+D)</b>	<b>80645038</b>	<b>92832495</b>

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2016**

**SCHEDULE 14- PRIOR PERIOD INCOME**

<b>Particulars</b>	<b>Amount in ₹</b>	
	<b>Current Year</b>	<b>Previous Year</b>
1. Academic Receipts	----	----
2. Income from Investments	----	----
3. Interest earned	----	----
4. Other Income	----	----
<b>Total</b>	----	----

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2016**

**SCHEDULE - 15 STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)**

<u>Particulars</u>	Amount in ₹					
	<u>Current Year</u>			<u>Previous Year</u>		
	<u>Plan</u>	<u>Non Plan</u>	<u>Total</u>	<u>Plan</u>	<u>Non Plan</u>	<u>Total</u>
a) Salaries and Wages						
Teaching staff	49679059	1289118549	1338797608	71341714	1177706402	1249048116
Non-Teaching staff	16913123	889213446	906126569	14276438	818264285	832540723
Lower Subordinate staff	----	251568833	251568833	755025	231393892	232148917
b) Allowances and Bonus	----	4147622	4147622	----	4701566	4701566
c) Contribution to Provident Fund	0	4641093	4641093	2178412	4874551	7052963
d) Contribution to other funds (specify)	----	----	0	----	----	0
e) Staff Welfare Expenses (Liveries)	----	2206092	2206092	----	950609	950609
f) Retirement and Terminal Benefits	1926265	1865572237	1867498502	----	955278556	955278556
g) LTC facility	0	20805922	20805922	61710	29131306	29193016
h) Medical facility	----	126404323	126404323	----	102041852	102041852
i) Children Education Allowance	327900	12312051	12639951	45000	11309925	11354925
j) Honorarium	462580	46974737	47437317	245660	57383313	57628973
k) Others	----	----	0	----	----	0
<b>Total</b>	<b>69308927</b>	<b>4512964905</b>	<b>4582273832</b>	<b>88903959</b>	<b>3393036257</b>	<b>3481940216</b>

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2016**

**SCHEDULE 15 A - EMPLOYEES RETIREMENT AND TERMINAL BENEFIT**

	Amount in ₹			
	Pension	Gratuity	Leave Encashment	Total
Opening Balance as on 01.04.15	14850709262	1046844910	946245327	16843799499
Addition : Capitalized value of Contributions Received from other Organizations	-	-	-	0
<b>Total (a)</b>	<b>14850709262</b>	<b>1046844910</b>	<b>946245327</b>	<b>16843799499</b>
Less: Actual Payment during the Year (b)	823855713	137353151	88744353	<b>1049953217</b>
Balance Available on 31.03.16 c (a-b)	14026853549	909491759	857500974	<b>15793846282</b>
Provision required on 31.03.16 as per Actuarial Valuation (d)	15517616630	1086698993	1015840343	<b>17620155966</b>
A. Provision to be made in the Current year (d-c)	1490763081	177207234	158339369	<b>1826309684</b>
B. Contribution to New Pension Scheme	----	----	----	39082553
C. Medical Reimbursement to Retired Employees	----	----	----	----
D. Travel to Hometown on Retirement	----	----	----	----
E. Deposit Linked Insurance Payment	----	----	----	180000
<b>TOTAL (A+B+C+D+E)</b>	<b>1490763081</b>	<b>177207234</b>	<b>158339369</b>	<b>1865572237</b>

**Note:**

1. The total (A+B+C+D+E) in this sub schedule will be the figure against Retirement and Terminal Benefits in Schedule 15.
2. Items B,C,D & E will be accounted on accrual basis and will include bills preferred but outstanding for payment on 31/3/16

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2016**

<b>SCHEDULE 16 - ACADEMIC EXPENSES</b>	<b>Current Year</b>			<b>Previous Year</b>		
	<b>Plan</b>	<b>Non Plan</b>	<b>Total</b>	<b>Plan</b>	<b>Non Plan</b>	<b>Total</b>
a) Laboratory Expenses	31846369	16228822	48075191	17389414	15756564	33145978
b) Field work/Participation in Conferences	-----	-----	0	222023	-----	222023
c) Expenses on Seminars/Workshops	2852612	6476881	9329493	3820710	3163320	6984030
d) Award and Scholarships	130797570	932845	131730415	-----	531862	531862
e) Academic Expenses	34865	1262481	1297346	-----	3494242	3494242
d) Payment to visiting faculty	-----	-----	0	78641	-----	78641
e) Examination	-----	286948598	286948598	102199	272095556	272197755
f) Refund of Fees	-----	892870	892870	-----	940618	940618
g) Entrance Exam	-----	-----	0	-----	14905670	14905670
f) Student Welfare Expenses	-----	-----	0	-----	-----	0
g) Admission Expenses	-----	-----	0	-----	-----	0
h) Convocation Expenses	-----	-----	0	-----	-----	0
i) Publications	899012	-----	899012	1106118	-----	1106118
j) Stipend/means-cum-merit scholarship	-----	-----	0	90753660	-----	90753660
k) Subscription Expenses	-----	-----	0	540771	-----	540771
l) Others (specify)	4122998	-----	4122998	-----	-----	0
<b>TOTAL</b>	<b>170553426</b>	<b>312742497</b>	<b>483295923</b>	<b>114013536</b>	<b>310887832</b>	<b>424901368</b>



**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2016**

SCHEDULE 17 - ADMINISTRATIVE AND GENERAL EXPENSES	Amount in ₹					
	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
<b>A Infrastructure</b>						
a) Electricity and Power		289663747	289663747	----	293299907	293299907
b) Water charges		73511827	73511827	(3327)	53490549	53487222
c) Insurance			0	----	----	0
d) Rent, Rates and Taxes (including property tax)		39385922	39385922	----	346346900	346346900
<b>B) Communication</b>			0	----	----	0
e) Postage and Telephone	74858	12028018	12102876	13110	9131210	9144320
f) Telephone, Fax and Internet Charges			0	----	----	0
g) Connectivity Expenses		57749535	57749535		30242959	30242959
<b>C) Others</b>			0	----	----	0
h) Printing and Stationery (consumption)	3461265	33507042	36968307	4643565	30058626	34702191
i) Travelling and Conveyance Expenses	6958639	11596075	18554714	42781527	13266777	56048304
j) Hospitality	1369792		1369792	----	----	0
k) Auditors Remuneration			0	----	426595	426595
l) Legal & Professional Charges		11357139	11357139	2247	9828101	9830348
m) Advertisement and Publicity	5530	2941457	2946987	47210	5272995	5320205
n) Magazines & Journals	420142	59487837	59907979	8950210	73271669	82221879
o) Watch & Ward Expenses	702136	57445318	58147454	----	57473959	57473959
p) House Keeping Expenses		41702093	41702093	----	25239503	25239503
q) Games & Sports	0	10593937	10593937	----	8922247	8922247
r) Medical Expenses	47276	64819879	64867155	----	58717741	58717741
s) Others/Contingency	5890115	52577454	58467569	33293159	28917813	62210972
<b>TOTAL</b>	<b>18929753</b>	<b>818367280</b>	<b>837297033</b>	<b>89727701</b>	<b>1043907551</b>	<b>1133635252</b>

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2016**

SCHEDULE - 18 TRANSPORTATION EXPENSES	Amount in ₹					
	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Vehicles (owned by institution)	----	----	0	----	----	0
a) Running expenses	----	----	0	----	----	0
b) Repairs & maintenance	----	----	0	----	----	0
c) Insurance expenses	----	----	0	----	----	0
2 Vehicles taken on rent/lease	----	----	0	----	----	0
a) Rent/lease expenses	----	----	0	----	----	0
3 Vehicle (Taxi) hiring expenses	2777759	876823	3654582	3297500	1851919	5149419
<b>Total</b>	<b>2777759</b>	<b>876823</b>	<b>3654582</b>	<b>3297500</b>	<b>1851919</b>	<b>5149419</b>

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2016**

Amount in ₹

SCHEDULE - 19 REPAIRS & MAINTENANCE	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Buildings		146437703	146437703	5138873	139033133	144172006
b) Furniture & Fixtures	22853	2835277	2858130	285183	9002254	9287437
c) Plant & Machinery	8784428	18788010	27572438	-----	10600045	10600045
d) Office Equipment			0	2948522	-----	2948522
e) Computers	4975557		4975557	1737668	-----	1737668
f) Laboratory & Scientific equipment		345501	345501	-----	202130	202130
g) Audio Visual equipment			0	-----	-----	0
h) Cleaning Material & services			0	-----	-----	0
i) Book binding charges			0	-----	-----	0
j) Gardening	32425	4852402	4884827	-----	5112409	5112409
k) Estate Maintenance			0	-----	-----	0
l) Vehicles		1812246	1812246	-----	1897540	1897540
m) Others (Specify)		-----	-----	-----	-----	0
		-----	-----			
<b>Total</b>	<b>13815263</b>	<b>175071139</b>	<b>188886402</b>	<b>10110246</b>	<b>165847511</b>	<b>175957757</b>

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2016**

					Amount in ₹		
SCHEDULE - 20 FINANCE COSTS		Current Year			Previous Year		
		Plan	Non Plan	Total	Plan	Non Plan	Total
a)	Bank charges	195475	180745	376220	190016	228799	418815
b)	Others (specify)	-----	-----	-----	-----	-----	-----
<b>Total</b>		<b>195475</b>	<b>180745</b>	<b>376220</b>	<b>190016</b>	<b>228799</b>	<b>418815</b>

Note:- If the amount is not material, the head Bank charges could be omitted and these could be accounted as Administrative expenses in Schedule 17.

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2016**

SCHEDULE - 21 Expenditure on Grants, Subsidies etc.	Amount in ₹					
	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Provision for Bad and Doubtful Debts/Advances	-----	-----	-----	-----	-----	-----
b) Irrecoverable Balances Written- off	-----	-----	-----	-----	-----	-----
c) Grants/Subsidies to other institutions/organizations	170100806	121853973	291954779	131419002	106980351	238399353
d) Others (specify)	-----	-----	-----	-----	-----	-----
<b>Total</b>	<b>170100806</b>	<b>121853973</b>	<b>291954779</b>	<b>131419002</b>	<b>106980351</b>	<b>238399353</b>

Note:-

Other expenses shall be classified as writes - off, provisions, miscellaneous expenses, loss on sale of investments, loss of fixed assets and loss on sale of fixed assets etc. and disclosed accordingly.

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2016**

**SCHEDULE 22: PRIOR PERIOD EXPENSES**

Particulars	Amount in ₹					
	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Establishment expenses	0	16843799499	16843799499	----	----	----
2 Academic expenses	----	----	----	----	----	----
3 Administrative expenses	----	----	----	----	----	----
4 Transportation expenses	----	----	----	----	----	----
5 Repairs & Maintenance	----	----	----	----	----	----
6 Other expenses	----	----	----	----	----	----
<b>Total</b>	<b>0</b>	<b>16843799499</b>	<b>16843799499</b>	<b>----</b>	<b>0</b>	<b>0</b>

## **SCHEDULES FORMING PART OF THE ACCOUNTS FOR THE YEAR ENDED 31<sup>ST</sup> MARCH 2016**

### **Schedule 23: Significant Accounting Policies**

#### **1 Basis for Preparation of accounts :**

- a. The financial statements are prepared on the basis of historical cost convention and generally on the accrual method of accounting unless otherwise stated.

#### **2 Revenue Recognition :**

- a. Fee from students, Sale of admission forms, Royalty, tuition fees for each semester and Interest on Savings Bank accounts are accounted for on cash basis.
- b. Income from Land, Buildings and other Property are accounted for on cash basis and Interest on investments is accounted for on accrual basis.
- c. Interest bearing advances to staff for House Building, Purchase of Vehicles and Computers is accounted on accrual basis every year, though the actual recovery of interest starts after the full repayment of the principal.

#### **3 Fixed Assets and Depreciation :**

- a. Fixed assets are stated at cost of acquisition including inward freight, duties and taxes and incidental and direct expenses related to acquisition, installation and commissioning less depreciation. Fixed assets received by the University without any consideration has been capitalized in the financial statement at a nominal value i.e. ₹.One per asset.

3.1 Gifted / donated assets are valued at a nominal value i.e. `Rs. 1/- (One) per asset. They are set up by credit to Capital Fund and merged with the Fixed Assets of the Institution. Depreciation is charged at the rates applicable to the respective assets.

3.2 Books received as gift are valued at a nominal value i.e. `Rs. 1/- (One) per asset.

3.3 Fixed assets are valued at cost less accumulated depreciation, Depreciation on fixed assets is provided on written down value method as specified in the Guidance Note issued by the Institute of Chartered Accountants of India, at the following rates :

**Tangible Assets :**

S.No.	Type of Assets	Rate
1	Land	0%
2	Building	5%
3	Furniture & Fixture	25%
4	Scientific Equipment	40%
5	Computer including Printers, UPS etc	40%
6	Library Books	50%
7	Buses, Vans etc.	30%
8	Cars, Scooters	25%
9	Plant & Machinery including Air-conditioners, Generators, Fire Extinguishers, Telephone, Television sets, Photo copiers, Fax Machines, Water Coolers, Projectors etc.	20%
10	Musical Instruments	50%
11	Sports Equipment	50%

**Intangible Assets (amortization) :**

1	Computer Software	40%
2	Patents	25%

3.4 In respect of additions to fixed assets during the year, depreciation is provided for full year. In respect of sale/deductions from the fixed assets, no depreciation is charged.

3.5 Assets created out of Earmarked Funds and Funds of Sponsored Projects where the ownership of such assets vest in the university, are set-up by credit to Capital Fund and merged with the Fixed Assets of the university. Depreciation is charged at the rates applicable to respective assets. Assets purchased out of Project funded by outside agencies remain the property of the concerned funding agency till the project is closed. After closure of the project, the project assets are merged with the Fixed Assets of the University at written down value by debiting respective Fixed Assets account and crediting Capital Fund Account.

3.6 Assets, the individual value of each of which is Rs. 5000/- or less (except Library books) are treated as revenue expenditure. However physical accounting and controls are continued by the holders of such assets.

**4 Intangible Assets:**

Patents, copy rights and computer software are grouped under intangible Assets.

4.1 **Patents:** The expenditure incurred from time to time (application fees, legal expenses etc.) for obtaining Patent is temporarily capitalized and shown as part of Intangible assets in the Balance Sheet. If applications for Patents are rejected, the cumulative expenditure incurred on the particular Patent is written off to the Income & Expenditure in the year of application is rejected. Further there is no amount incurred during the financial year on Patent. The rate of depreciation is provided @ 25% on written down value method.



4.2 Electronic Journals: The amount spent on E- Journals are treated as revenue expenditure in the year the amount is incurred.

4.3 Expenditure on acquisition of software has been separated from computer and peripherals. Since, the rate of obsolescence in respect of software is very high, the rate of depreciation is provided @ 40% on written down value method w.e.f. **1st April, 2014.**

**5 Stocks:**

Expenditure on purchase of stores and spares, Loose Tools, Building Material, Electrical Material, Laboratory chemicals, consumables, glassware, publications, stationery and water supply material is accounted for as revenue expenditure in the year of purchase.

**6 Retirement Benefits :**

Retirement benefits i.e., pension, gratuity and leave encashment are provided on the basis of actuarial valuation as per Accounting Standard -15. The actual payments of Pension, Gratuity and Leave encashment are debited in the Accounts to the respective provisions. The provision for the previous years has been shown as prior period expenses by debiting income and expenditure account and crediting the respective provision.

**7 Investments :**

All Investment are stated at cost.

**8 Earmarked/ Endowment Funds :**

The Earmarked Fund consisting of Corpus Fund, Other funds, Housing Building Funds, Conveyance Fund (including computer advances) are long term funds and earmarked for specific purposes. Each of the Funds has a separate bank account. Those with large balances also have investment in government securities, debentures and bonds and term deposit with Banks. The income from investment/ advances (house building, conveyance and computer) on accrued basis and interest on savings bank accounts are credited to the respective fund on cash basis. The expenditure and advances (in the case of housing building conveyance/computers) are debited to the respective funds. The assets created out of earmarked fund where the ownership vests in the institutions, are merged with the assets of the institutions by crediting an equal amount to Capital Fund. The balance in respective funds is carried forward and is represented on the assets side by the balance at bank, Investment and accrued interest.

8.1 The income and expenditure of Earmarked/Endowment funds are accounted for on cash basis. The balance of respective funds is carried forward on the liability side of the Balance Sheet and is represented by bank balance, advances, Fixed Deposit and investment on the asset side of the Balance Sheet.

8.2 Assets purchased/created out of Earmarked Funds where the ownership of the assets vests in the University, are merged with the fixed assets of the University by debiting respective fixed asset account and crediting Capital Fund account. Depreciation is charged at the rates applicable to the respective assets.

**8.3 Endowment Funds:** Endowment Funds are received from various individual donors, Trust and other Organization, for establishing Chairs and for Medals & Prizes, as specified by the donors.

The Income from investment of each Endowment Fund is added to the Fund. The expenditure on Medals & Prizes is met from the interest earned on investment of the respective Endowment Funds and the balance is carried forward. In respect of chairs, however, the Corpus of Endowment is also used.

The balances are represented by Investment in RBI Bonds and Fixed Deposits and balance in Savings Bank Account common for all Endowments, and Accrued Interest on Investments.

## **9 Government and UGC Grants :**

9.1 Government Grant and UGC grants are accounted for on receipt basis. However, where a sanction for release of grant pertaining to financial year received before 31<sup>st</sup> March and the grant is actually received in the next financial year, the grant is accounted on accrual basis and an equal amount shown as recoverable from grantor.

9.2 To the extent utilized towards capital expenditure (on accrual basis) government grant and grant form UGC are transferred to the capital fund.

9.3 Government and UGC grants for meeting Revenue Expenditure (on accrual basis) are treated to the extent utilized as income of the year in which they are realized.

9.4 Unutilized Grant ( including advances paid out of such grants) are carried forward and exhibited as a liability in the Balance Sheet

## **10 Investments of Earmarked Fund and Interest Income Accrued on such Investments :**

To the extent not immediately required for expenditure the amounts available against such funds are invested in approved Securities and Bonds or deposited for fixed term with Banks, leaving the balance in Savings Bank Account.

Interest received, interest accrued and due and interest accrued but not due on such investment are added to the respective funds and not treated as income of the Institution.

## **11 Sponsored Projects :**

11.1 In respect of ongoing sponsored projects the amount received from sponsors are credited to the head Current liabilities and provisions- current liabilities – Other Liabilities – receipt against ongoing sponsored projects. “As and when expenditure incurred/ advances are paid against such project, or the concerned project account is debited with allocated overhead charges, the liability account is debited.

11.2 In addition to the earmarked funds for junior research fellowship funded by the UGC fellowship and scholarship are also sponsored by various organizations. These are accounted in the same way as Sponsored Project except that the expenditure generally is only on distribution of fellowship and Scholarship which may include allowances for contingent expenditure by fellow and scholars.

11.3 The Institutions itself also awards fellowships and Scholarships, which are accounted on Academic expenses.

11.4 Assets purchased out of Project funded by outside agencies remain the property of the concerned funding agency till the project is closed. After closure of the project, the project assets are merged with the Fixed Assets of the University at written down value by debiting respective Fixed Assets account and crediting Capital Fund Account.

**12 Income Tax :**

The Income of the institution is exempt from Income Tax under section 10(23)(c) of the Income Tax Act. No provision for tax is therefore made in the accounts.

## SCHEDULES FORMING PART OF THE ACCOUNTS FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2016

### **Schedule 24: Contingent Liabilities and Notes on Accounts**

#### **1 Contingent Liabilities :**

Various claims filed by present/former employees of the University are pending before Industrial Tribunals and the Hon'ble High Court of Delhi. The quantum of claim is not ascertainable.

#### **2 Capital Commitments ( Capital Works In Progress)**

Capital Works in Progress includes the amount paid by University till 31<sup>st</sup> March 2016 towards construction of the following Projects

I. Construction of stadium for Common Wealth Games	₹ 311,18,50,653
II. Construction of 1500 seated Rajiv Gandhi Girls Hostel for under graduate and Post graduate students at Dhaka North Campus	₹ 74,72,81,869
III. Construction of 70 'D' type flats at Dhaka	₹ 8,38,20,926
IV. Other Projects From Earmarked/ Endowment Fund	₹12,28,72,429

#### **3 Fixed Assets :**

3.1 Addition in the year to Fixed Assets in Schedule 4 include assets purchased out of plan funds Rs.9,03,62,873/- Non plan Funds Rs. 8,15,36,928/- and Earmarked/Endowment Fund Rs.6,86,01,255/- sponsored projects closed 2,39,20,291/- and Library Books and other assets of the value of Rs 2,415/- (at nominal value of Rs. 1/- per assets) gifted to the institutions. The assets have been set up by credit to Capital Fund.

3.2 In the Balance sheet as on 31<sup>st</sup> March, 2014 and the Balance Sheets of earlier years Fixed Assets created out of Plan Fund and Fixed Assets created out of non-plan funds were not exhibited distinctly. Further the addition during the year from 31<sup>st</sup> March 2016 from plan, non-plan funds, and other funds, and the depreciation on those additions respectively has been exhibited distinctly in sub schedule A B & D to the main schedule of the Fixed Assets (Schedule 4)

3.3 Fixed Assets set out in Schedule 4 do not include Assets purchased out of funds of sponsored Project, held & used by the Institutions, as Project contracts includes stipulations that all such Assets purchased out of Project funds will remain the property of Sponsors.

**4 Patents :**

An Accounting Policy in respect of Expenditure on Patents was evolved for the first time during the financial year 2013-14.

**5 Deposit Liabilities :**

There is no amount of earnest money deposit & security deposit which has been transferred to Revenue Account

**6 Expenditure in Foreign currency :**

Transaction denominated in Foreign Currency at the exchange rate prevailing at the date of payment/realization.

**7 Current Assets, Loans & Advances and Deposits :**

6.1 In the opinion of the management, the Current Assets, Loans and Advances have a value on realization in the ordinary course, equal at least to the aggregate amounts shown in the Balance Sheet.

6.2 The Loans & Advances shown in the asset side of the Balance Sheet does not include, advances pertaining to period up to 31<sup>st</sup> March 2006, are still outstanding for final statement. These advances were charged to the respective head of account at the time of release of advance.

**8 Bank Balances :**

The Details of Balances in Savings Bank Accounts, Currents Accounts, & Fixed Deposit Accounts with Banks are enclosed as attachment "A" to the schedule of current assets.

9 Previous year figures have been regrouped/rearranged where ever necessary.

10 Figures in the final accounts have been rounded off to the nearest rupee.

11 Schedule 1 to 24 are annexed to & form an integral part of the Balance Sheet as on 31<sup>st</sup> March 2016 and The Income & Expenditure Account for the year ended 31<sup>st</sup> Mar 2016

**12 Provident Fund Accounts:**

As the Provident Fund Accounts including New Pension Scheme Fund are owned by the members of those funds and not by the University, these accounts were separated from the University Accounts. However, a Receipts & Payments Accounts, an Income &

Expenditure Account (on Accrual basis) and a Balance Sheet of the Provident Fund Accounts as well as the New Pension Scheme for the year 2015-16 have been attached, to the University's Accounts.

**13 Salaries:**

The expenditure on salary is for the period from March 2015 to February 2016. No provision is made towards salary for the month of March 2016.

**14 Halls & Hostel:**

As Hall & Hostels are separate reporting entities, their accounts are prepared separately from the University Accounts. However, a consolidated Receipts & Payments Account consolidated Income & Expenditure Account and a consolidated Balance Sheet of all the Halls & Hostels and Guest Houses have been attached to the University's Account.

**15 Delhi University Press:**

As University Press is a separate reporting entity, its accounts are prepared separately and attached to the University's Account.

**16 *The Change of Accounting Policy During the financial year 2014-15:***

**UNIVERSITY OF DELHI**  
**RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2016**

RECEIPTS	Current Year	Previous Year	PAYMENTS	Current Year	Amount in ₹ Previous Year
<b>I. Opening Balances</b>			<b>I. Expenses</b>		
a) Cash Balances	----	----	a) Establishment Expenses	3805917365	3481940216
b) Bank Balances			b) Academic Expenses	483295923	424901368
i. In Current Accounts	192009972	176227475	c) Administrative Expenses	814066327	1144955744
ii. In Saving Accounts	2861835734	3196004183	d) Transportation Expenses	3654582	5149419
iii. In Deposit Accounts	7219616295	6828824844	e) Repairs & Maintenance	188886402	175957757
<b>II. Grants Received</b>			f) Finance costs	376220	418815
a) From Government of India	----	----	g) Expenditure on Grant	291954779	238399353
b) From State Government	----	----	h) Prior Period Items	----	----
c) From UGC			<b>Payments against</b>		
i) Grant for Capital Expenditure-Non Plan	815369	----	<b>II. Earmarked/ Endowment Funds</b>	723520908	402894673
28					
ii) Grant for Revenue Expenditure-Non Plan	425794	----	<b>Payments against</b>		
2072			<b>III. Sponsored Projects/Schemes</b>	601454476	590718472
Less: Advance Grant received	0	4339479000	<b>Payments against</b>		
			<b>IV. Sponsored Fellowships/Scholarships</b>	381347493	364164735
d) From other sources (details)			<b>Payments against Plan Accounts</b>	----	----
( Grants for capital & revenue exp/ to be shown separately if available)			<b>VI. Investments and Deposits made</b>		
<b>III. Academic Receipts</b>			Out of		
a) Fees and Subscriptions	1015160416	937672248	a) Earmarked/Endowment Funds	149800000	----

b)	Sale of Publications	14065440	18304337	b)	Out of own funds (Investments - Others)	----	----
<b>IV.</b>	<b>Receipts against Earmarked/Endowment Funds</b>	822965530	714286652	<b>VII.</b>	<b>Term Deposits with Scheduled Banks</b>	----	----
<b>V.</b>	<b>Receipts against Sponsored Projects/Schemes</b>	646136569	736849745	<b>VIII</b>	<b>Expenditure on Fixed Assets and . Capital Work - In - Progress</b>	----	----
<b>VI.</b>	<b>Receipts against Plan</b>	253258797	96915333	a)	Fixed Assets	190272737	259344109
<b>VII.</b>	<b>Receipts against Sponsored Fellowships and Scholarships</b>	310780925	275930178	b)	Capital Works - In - Progress	50000000	5037256
<b>VIII</b>	.			<b>IX.</b>	<b>Other Payments including statutory payments</b>		
a)	Earmarked/Endowment Funds	502936345	292880808		Other body transaction	160848782	83300225
b)	Plan Accounts	243563560	165630007	<b>X.</b>	<b>Refunds of Grants</b>	----	----
c)	Sponsored Projects	68412455	64805331	<b>XI.</b>	<b>Deposits and Advances</b>		
d)	Sponsored Fellowship & Scholarship	3876800	6309472	a)	Festival Advance	8622309	7224695
<b>IX.</b>	<b>Interest received on</b>			b)	Advances	91064729	232397492
a)	Bank Deposits	18576534	40109065	c)	Permanent Advance	8998597	18500
b)	Loans and Advances	----	----	d)	Medical Advance	504000	237400
c)	Savings Bank Accounts	12445873	----	e)	LTC Advance	3992468	2516270
<b>X.</b>	<b>Investments encashed</b>	----	----	f)	Remittances	1039991	----
<b>XI.</b>	<b>Term Deposits with Scheduled Banks encashed</b>	----	----	<b>XII.</b>	<b>Other Payments</b>		502373
<b>XII.</b>	<b>Other Income (including Prior Period Items)</b>	80645038	92832495	<b>XIII</b>	<b>Closing Balances</b>		
				.			
				a)	Cash in hand	----	----
				b)	Bank Balances		
					- In Current Accounts	69881547	192009972
					- In Savings Accounts	1040611971	2861835734



<b>XIII</b>	<b>Deposits and Advances</b>			- In Deposits Accounts	9716383113	7219616295
.						
a)	Festival Advance	8522760	6793714			
b)	LTC Advance	0	8751812			
c)	Medical Advance	0	803200			
d)	Permanent Advance	9042097				
<b>XIV</b>	<b>Miscellaneous Receipts including</b>					
.	<b>Statutory Receipts</b>	162063724	95828996			
<b>XV.</b>	<b>Any Other Receipts</b>	1100855	1941977			
	<b>TOTAL</b>	<b>18786494719</b>	<b>17693540873</b>	<b>TOTAL</b>	<b>18786494719</b>	<b>17693540873</b>

**PROVIDENT FUND ACCOUNT**  
**BALANCE SHEET AS AT 31st MARCH 2016**

Amount	Liabilities	Amount	Amount	Assets	Amount
	<b><u>GPF</u></b>				
2858624363	Opening Balance	3065289213	1138345000	Investment (Bonds)	1167800000
471823710	Add: Subscriptions in the year	481646120	2541533706	Deposits Accounts (FD)	2810000000
246612974	Add: Interest Credited	267517470	279972894	Interest Accrued as on 31.03.2016	230416092
(511765232)	Less: Advance/Withdrawal	(507133969)			
(6602)	Less: Adjustment relating to Previous yr.	(14724)			
3065289213	Closing Balance	3307304110			
	<b><u>CPF</u></b>				
683177783	Opening Balance	682905444		Bank Balances with SBI Bank in Saving Accounts	
61644991	Add: Subscriptions & Contribution repayment of advance in the year	58708641	35770917	GPF A/c No.10851298435	37125058
55504241	Add: Interest Credited	60097341	16610898	CPF A/c No.10851298457	48068865
(117421571)	Less: Advance/Withdrawal/Final settlement	(100160893)			
-	Less: Adjustment related to Previous Year (93432+10)	(93442)			
682905444	Closing Balance	701457091			
	<b><u>Interest Reserve</u></b>				
235696971	Opening Balance	264038758			
28341787	Add: Excess of Income over Expenditure	20610056			
264038758	Closing Balance	284648814			
<b>4012233415</b>	<b>TOTAL</b>	<b>4293410015</b>	<b>4012233415</b>		<b>4293410015</b>

**PROVIDENT FUND ACCOUNT**

**INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2016**

					(Amount / Rs.)
Amount 31/03/15	Expenditure	Amount 31/03/16	Amount 31/03/15	Income	Amount 31/03/16
	<b>Interest Credited to:</b>		373811182	Interest earned on Investment	397678481
246612974	GPF Account	267517470	147036390	Add: Interest accrued during the year 2015-16	125812577
55504241	CPF Account	60097341	6602	Add: Adjustment related to previous year (GPF A/c 14724 + CPF A/c 93442)	108166
3217	Bank Charges  (GPF A/c 3852 + CPF A/c 1126)	4978	(190391955)	Less Interest accrued for the year 2012-13,  2013-14, 2014-15 but realized during the year 2015-16	(175369379)
28341787	Excess of Income over Expenditure	20610056			
<b>330462219</b>	<b>Total</b>	<b>348229845</b>	<b>330462219</b>	<b>Total</b>	<b>348229845</b>

## PROVIDENT FUND ACCOUNT

### RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2015-16

		(Amount / Rs.)	
Receipts	Amount	Payments	Amount
Opening Balance as on 01/04/15			
GPF A/c No.10851298435	35770917	GPF Adv./Withdrawal/Final Settlement	507133969
CPF A/c No.10851298457	16610898	CPF Adv./Withdrawal/Final Settlement	100160893
GPF Subscription	481646120	Investment during the year	3462300000
CPF Subscription & University Contribution	58708641	Bank Charges (GPF A/c 3852 + CPF A/c 1126)	4978
		Closing Balances:	
Investment Encashed	3164378706	GPF A/c No.10851298435	37125058
Interest Received	397678481	CPF A/c No.10851298457	48068865
<b>TOTAL</b>	<b>4154793763</b>	<b>TOTAL</b>	<b>4154793763</b>

## NPS TIER-I ACCOUNT

### BALANCE SHEET AS AT 31st MARCH 2016

(Amount / Rs.)					
Amount	Liabilities	Amount	Amount	Assets	Amount
	<b>NPS Tier-I Account</b>				
365981	Opening Balance	365981	2155294	Investment	2422000
63145932	Add: Sub+U. Contribution	79694147	79853	Interest accrued but not due	73833
-	Add: Excess Receipt (Remittance)	7810	3321	Balance at Bank Saving A/cs	11970
(63145932)	Less: Transferred to NSDL	(79694147)			
1654856	Excess of Income over Expenditure Balance as on 01.04.2015	1872487			
217631	Add: During the year	261525			
<b>2238468</b>	<b>TOTAL</b>	<b>2507803</b>	<b>2238468</b>	<b>TOTAL</b>	<b>2507803</b>

**NPS TIER-I ACCOUNT**

**INCOME & EXPENDITURE ACCOUNT FOR THE FINANCIAL YEAR 2015-16**

(Amount / Rs.)					
Amount	Expenditure	Amount	Amount	Income	Amount
1466	Bank Charges	1452	2391984	Interest received on investment	1940687
217631	Excess of Income over Expenditure	261525	(1987600)	Less:	(1621726)
			(133706)	i) Interest pertain to GPF A/c (on Bonds)	(49964)
			(131434)	ii) Interest pertain to GPF A/c (on FD)	(79853)
			79853	iii) Interest Accrued 31/03/16	73833
				Add: Interest Accrued but not due	
<b>219097</b>	<b>TOTAL</b>	<b>262977</b>	<b>219097</b>	<b>TOTAL</b>	<b>262977</b>

**NPS TIER-I ACCOUNT**

**RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2015-16**

		(Amount / Rs.)	
Receipts	Amount	Payments	Amount
Opening Balance as on 01/04/2015	3321		
<b>NPS Tier-I Account</b>		Investment	2422000
Own Subscription & University Contribution	79694147	Withdrawal/Refund to NSDL	79694147
Interest Received on investment (NPS)	202239	Excess remittance refunded	9724
Interest on Bonds pertains to GPF A/c	1621726	Interest on Bonds transferred to GPF A/c	1621726
Interest on F.D. pertains to GPF A/c	49964	Interest on FD transferred to GPF A/c	49964
Interest on Saving Bank A/c	66758		
Investment Encashed (F.D.)	2155294		
F.D. maturity (principal) amount pertains to GPF A/c	533706	FD maturity (principal) amount transferred to GPF A/c	533706
Bonds maturity amount pertains to GPF A/c	24845000	Bonds maturity amount transferred to GPF A/c	24845000
Excess Receipt (remittance) - (9724+7810)	17534	Bank Charges	1452
		Closing balance as on 31.03.2016	11970
<b>TOTAL</b>	<b>109189689</b>	<b>TOTAL</b>	<b>109189689</b>

UNIVERSITY PRESS

BALANCE SHEET AS AT 31st MARCH 2016

<b>FUNDS &amp; LIABILITIES</b>	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
	<b>Rupees</b>	<b>Rupees</b>
<b>1. Capital</b>	3,996,503.00	4,046,372.00
<b>2. Current Liabilities :</b>		
(a) Deduction from Salary Bills	1,018,671.00	942,058.00
(b) Bills Payable	605,322.00	3,565,340.00
(c) Advance for work to be done	130,000.00	130,000.00
(d) Inter Bank Transfer	17,395,492.00	17,395,492.00
(e) Loan from UFD	10,000.00	10,000,000.00
(f) Earnest Money	50,500.00	50,500.00
<b>TOTAL</b>	<b>23,206,488.00</b>	<b>36,129,762.00</b>
<b>ASSETS</b>	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
	<b>Rupees</b>	<b>Rupees</b>
1. Machinery, Furniture & Equipments	328,141.00	392,307.00
2. Amount Receivable	20,845,348.00	25,708,119.00
3. <u>Stock In Hand</u>		
(a) Raw Material	1,128,533.00	811,364.00
(b) Finished Goods	49,850.00	25,405.00
4. Work in Progress	365,000.00	1,277,000.00
5. Cash in Bank	482,316.00	7,730,739.00
6. Festival Advance	6,300.00	4,400.00
7. Permanent Assets	1,000.00	1,000.00
8. Advances	Nil	179,428.00
<b>TOTAL</b>	<b>23,206,488.00</b>	<b>36,129,762.00</b>



**UNIVERSITY PRESS**

**PROFIT & LOSS ACCOUNT FOR THE YEAR 2015-2016**

<b>Particulars</b>	<b>Current Year</b>	<b>Previous Year</b>	<b>Particulars</b>	<b>Current Year</b>	<b>Previous Year</b>
1. <u>To Opening Stock :</u>			1. <u>Income :</u>		
(a) Raw Materials	811,364.00	1,153,289.00	(a) Income from Printing and Binding	22,341,971.00	27,677,584.00
(b) Finished Goods	25,405.00	81,535.00			
2. <u>To Work in Progress</u>	1,277,000.00	799,000.00			
3. <u>To Pay and Allowances :</u>	7,473,557.00	7,839,317.00	2. <u>By Closing Stock :</u>		
(a) L.T.C.	353,566.00	192,581.00	(a) Raw Materials	1,128,533.00	811,364.00
(b) Tuition Fees	57,000.00	39,750.00	(b) Finished Goods	49,850.00	25,405.00
(c) Bonus	44,902.00	51,810.00			
(d) Medical Re-imburement	266,016.00	544,506.00			
4. <u>To Purchase of Raw Materials</u>	5,564,643.00	7,339,525.00	3. <u>By Work in Progress</u>	365,000.00	1,277,000.00
5. <u>To Misc. Contingent Exp.</u>	66,364.00	58,652.00			
6. <u>To Rate, Rent and Taxes</u>	6,025.00	10,019.00			
7. <u>To Work Done Through Outside Agency</u>	7,853,930.00	8,112,608.00	4. <u>By Loss for this year</u>	5,290.00	Nil
8. <u>Depreciation :</u>					
(a) Machinery, Furniture & Equipment	90,872.00	110,760.00			
9. <u>Profit</u>	Nil	3,458,001.00			
<b>TOTAL</b>	<b>23,890,644.00</b>	<b>29,791,353.00</b>	<b>TOTAL</b>	<b>23,890,644.00</b>	<b>29,791,353.00</b>

## RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31ST MARCH, 2016

*Amount in ₹*

Receipts	Current Year	Previous Year	Payments	Current Year	Previous Year
<b>I Opening Balance</b>			<b>I Expenses</b>		
Bank Balance	7730739	1364664	Establishment Expenses	8033541	8423573
Deposit in Bank	----	----			
<b>II Receipts from Printing &amp; Binding work</b>	27160163	18114135	<b>II Other Administrative Expenses</b>		
			Expenditure	16449758	13360835
<b>III Deductions\Recoveries</b>	3333066	3932733			
Festival Advance	12600	15300	Festival Advance	14500	18000
Loan Received From UDF	----	10000000	Remittance	3256453	3888685
Other receipts	----	----	Loan Refund to UDF	10000000	----
Interest on FDR's	----	----	Earnest Money	0	5000
			<b>III Closing Balance</b>		
			Bank Balance	482316	7730739
<b>Total</b>	<b>38236568</b>	<b>33426832</b>		<b>38236568</b>	<b>33426832</b>

**HALLS AND HOSTELS**  
**BALANCE SHEET AS AT 31st MARCH, 2016**

<b>SOURCE OF FUNDS</b>	Amount in ₹	
	<b>Current Year</b>	<b>Previous Year</b>
<b>COURPUS/CAPITAL FUND</b>	221169522	187151346
<b>DESIGNATED/EARMARKED/ENDOWMENT FUNDS</b>	39760341	37963396
<b>CURRENT LIABILITIES &amp; PROVISIONS</b>	14973043	8843540
<b>TOTAL</b>	<b>275902906</b>	<b>233958282</b>
<b>APPLICATION OF FUNDS</b>		
<b>Fixed Assets</b>		
Tangible Assets	28402677	25214572
Intangible Assets	11436	0
Capital Works-In-Progress	0	0
<b>INVESTMENT FROM EARMARKED/ENDOWMENT FUNDS</b>		
Long Term	9906032	18000
Short Term	0	0
<b>INVESTMENTS- OTHERS</b>	49061064	91136815
<b>CURRENT ASSETS</b>	178660692	117643118
<b>LOANS, ADVANCES &amp; DEPOSITS</b>	9915229	0
<b>MISCELLANEOUS EXPENDITURE</b>	(54224)	(54224)
<b>TOTAL</b>	<b>275902906</b>	<b>233958282</b>

**HALLS AND HOSTELS**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2016**

<b>Particulars</b>	Amount in ₹	
	<b>Current Year</b>	<b>Previous Year</b>
<b>(A) INCOME</b>		
Academic Receipts	52730755	78995265
Grants/Subsidies	115084624	106253779
Income From Investment	11491579	0
Interest Earned	2595584	10914560
Other Income	50850888	11550643
Prior Period Income	0	0
<b>Total (A)</b>	<b>232753430</b>	<b>207714247</b>
<b>(B) EXPENDITURE</b>		
Staff Payments & Benefits (Establishment Expenses)	119933527	103873718
Academic Expenses	48308	0
Administrative and General Expenses	64376319	69508390
Transportation Expenses	570265	0
Repair & Maintenance	9634277	0
Finance Costs	42431	9319
Depreciation	8594865	7032257
Other Expenses	8210	0
Prior Period Expenses	0	0
<b>Total (B)</b>	<b>203208202</b>	<b>180423684</b>
<b>Excess of Income over Expenditure/ (Expenditure over Income) (A-B)</b>	<b>29545228</b>	<b>27290563</b>
<b>Balance being Surplus/(Deficit) carried to Capital Fund</b>	<b>29545228</b>	<b>27290563</b>

**HALLS AND HOSTELS**  
**RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31st MARCH 2016**

Amount in ₹

Receipt	Current Year	Previous Year	Payment	Current Year	Previous year
<b>I. Opening Balance</b>			<b>I. Expenses</b>		
- Cash in Hand	278911	279767	(a) Establishment Expenses	118581944	104053419
- Bank Balance	62190809	78836786	(b) Academic Expenses	48308	0
- Imprest	777720	2879773	(c) Administrative Expenses	65919282	71640712
- Deposit Account	114097925	42075463	(d) Transportation Expenses	570265	0
			(e) Repairs & Maintenance Expenses	8584504	0
II. Other Bank Balances	0	26731023	II. (a) Payments against Earmarked Fund	12676258	4609865
III. Grants Received	121583774	107013012	(b) Payment against Projects	0	951642
IV. Academic Receipts	46592774	0	III. Investments and Deposits made	48379057	5210325
V. Receipts against Earmarked/Endowment Funds	15313825	0	IV. Expenditure on Fixed Assets & Capital work-in-Progress	11159096	4894932
VI. Interest Received	3162327	4340945	V. Finance Charges	29651	6461
VII. Income from Investments	13022047	3765836	VI. Deposits and Advances	6796359	0
VIII. Other Income	55752119	91754840	VII. Other Payments	4773539	18873467
IX. Deposits and Advances	47038156	0	<b>VIII. Closing Balances</b>		
X. Any Other Receipts	11260433	29908744	- Cash in Hand	46552	278911
			- Bank Balance	86082586	62190809
			- Imprest	113578	777720
			- Deposit Account	127309841	114097925
<b>Total</b>	<b>491070820</b>	<b>387586189</b>	<b>Total</b>	<b>491070820</b>	<b>387586189</b>



दिल्ली विश्वविद्यालय  
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