



# जीवन पर्यंत शिक्षण संस्थान

*Profile 2013*



**Institute of Lifelong Learning**  
*Transcending Boundaries*

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- Prof. R. C. Kuhad (South Campus).

## Advisors

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## ICT Coordinator

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## Academic Secretary

- Dr. Amrit Kaur Basra

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- Dr. B. S. Gautam (Political Science)
- Dr. D. A. P. Sharma (Hindi)
- Dr. Romila Aggarwal ( Commerce )
- Ms. Sonu Mehta (Commerce)
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- Ms. Kaberi Kar

## Office

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- Mr. Murslin (Junior Assistant)
- Mr. Anil Kumar (Attendant)

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- Mr. Mohit



# University of Delhi Delhi-110007

**Professor Dinesh Singh**  
**Vice Chancellor**



## Message

It is a matter of great satisfaction to learn that the *Institute of Lifelong Learning* has succeeded in touching new horizons by merging multi-media innovations in the field of higher education. The virtual learning content, some of which I have seen myself, explores different mediums like E-Content, Video lectures, Transcriptions, Performances and Panel Discussions to introduce learners to knowledge that is accessible and creative. As a nodal agency for bridging partnerships, the Institute has already gone a long way in putting together learning exchange programmes between the University of Delhi and the University of Edinburgh and also with the University of Massey, transcending borders as never before. The initial vision coupled with consistent dedication has vested the Institute with a seminal role in the global community. I further foresee that ILLL will have an important role in facilitating the four year course by generating e-content.

  
Dinesh Singh

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# University of Delhi Delhi-110007

***Professor Vivek Suneja***  
***Pro- Vice Chancellor***



It gives me great pleasure to know that ILLI is playing a dynamic role in pioneering ICT supported learning for the University Community and beyond. In the light of the re-structured undergraduate programme, ILLI will further expand the horizon of learning by uploading e-content in all the subjects on the Delhi University Portal. I am happy to know that ILLI is developing e-content under the National Mission on education (NME) through ICT. I extend my good wishes to the ILLI team.

**(Vivek Suneja)**

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# University of Delhi South Campus

**Professor Umesh Rai**  
**Director**



On the occasion of “Antardhvani” 2013, I extend my deep appreciation of the participation of Institute of Life Long Learning in this festival by show-casing quality teaching material, including e-content, e-lectures etc., developed by the Institute for undergraduate courses of University of Delhi. It gives me great pride to highlight that Institute of Life Long Learning at South campus founded in 2007 by painstaking efforts of Prof. Dinesh Singh (the then Director, University of Delhi South campus) has been nurtured in keeping with his vision.

I am extremely happy to see the progress being made by the faculty engaged at ILLL in making our dream of 'creating innovation courseware including interactive features that facilitate immersive learning' come true.

I wish ILLL great success in accomplishing its mission.

(Umesh Rai)

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# दिल्ली विश्वविद्यालय दिल्ली - ११०००७

प्रो. सुधीश पचौरी  
अधिष्ठाता, कॉलेजिज  
दिल्ली विश्वविद्यालय



## सन्देश

'जीवन पर्यंत शिक्षण संस्थान' दिल्ली विश्वविद्यालय, दिल्ली विश्वविद्यालय के विविध अनुशासनों के छात्र समुदाय के लिए नए प्रकार की ऑन-लाइन पठन सामग्री मुहैया कराने के लिए प्रतिश्रुत है। समाज शास्त्र एवं विज्ञान-संबंधी विषयों में हिंदी में स्तरीय पठन सामग्री तैयार कराना, उसे ई-कंटेंट के स्वरूप में ढालने का काम बेहद चुनौतीपूर्ण है, जिसे संस्थान संभव कर रहा है। यह सामग्री निश्चय ही उपयोगी साबित होगी, इस बात का पूरा भरोसा है। दिल्ली विश्वविद्यालय की छात्र संख्या को देखते हुए नई से नई सामग्री की ऑन-लाइन उपलब्धि ही वह मार्ग है, जिसके जरिये सभी वर्ग के छात्रों के अध्ययन में मदद की जा सकती है। दिल्ली विश्वविद्यालय के अध्यापक इस कार्य में दक्ष हैं। वर्तमान में उपलब्ध कराई जा रही सामग्री इसका उत्तम नमूना है।

आशा है कि संस्थान अधिकाधिक अध्यापकों को जोड़कर न केवल ई-कंटेंट विकसित करने में और अधिक सक्षम होगा बल्कि दक्ष अध्यापकों, विशेषज्ञों के वीडियो व्याख्यानो के जरिए वह एक ऐसे 'व्याख्यानालय' का निर्माण करने में सफल होगा, जो वर्तमान 'कक्षा-प्रणाली' को और अधिक पुष्ट करेगा। इस महाप्रयोग एवं महारंभ के लिए मेरी शुभकामनाएँ सदैव संस्थान के साथ हैं।

सुधीश पचौरी  
अधिष्ठाता, कॉलेजिज  
दिल्ली विश्वविद्यालय

दूरभाष : ०११-२७६६६६२८

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# University of Delhi Delhi-110007

***Professor Malashri Lal***  
***Dean, Academic Activities & Projects***



## **Message**

The concept of the Institute of Life Learning (ILLL) is to remove many of the traditional barriers to knowledge acquisition. Space, time and resources being constraints in our society, it is technology that will bring knowledge to one's doorstep, or should one say, the electronic screen. ILLL has been a pioneer at the University of Delhi in producing lessons in a large range of subjects and using innovative modes such as animation, quiz and e-labs to make the lessons interactive and enjoyable. Translation of lessons in Hindi has also brought substantial benefit to students.

Altogether, ILLL appears to me as the energetic core that will drive the new pedagogy of an interdisciplinary curriculum and project based experience. By aggregating the best in the subject of enquiry, one has access to the foundations of knowledge in that field. After that, the ILLL lessons will show the direction and build upon the curiosity of the learner. The Directors, Joint Directors, Fellows and staff at ILLL are to be congratulated for their vision and hard work. My best wishes.

**Malashri Lal**  
**Professor Malashri Lal**  
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**Prof. Shormishtha Panja**



**Prof. Ramesh Gautam**



**Prof. R.C. Kuhad**

## **ILLL Vision Statment**

It's a matter of pride for all of us that University of Delhi has taken an initiative to organize "Antradhvani" on 22-24<sup>th</sup> February 2013, to showcase our programmes, achievements in teaching and research in Colleges and University teaching departments.

We at ILLL are committed to generate quality-learning material in the form of e-resources in both Hindi and English for students of undergraduate courses in different disciplines. A lot of work has been done in wide range of disciplines like English, Hindi, Legal Literacy, Film studies, Mathematical awareness, Business Communication, Language, Literature and cultures, Social Enquiry, History, Commerce, Economics, Mathematics, Botany, Zoology, Political Science, Hindi, Chemistry and Physics . Work on disciplines like Microbiology, Biochemistry, Mathematics and Computer Science is to begin soon. Most of the lessons already developed are available on ILLL website for the users.

We at ILLL have been bestowed with the responsibility of creating e-lessons for countrywide students by the Ministry of HRD under NME Project for six major disciplines. The fellows at North and South campus, ILLL and the ILLL staff are dedicated to develop quality course contents. Keeping in view the increasing seekers of higher education in the near future, the importance of e-content and its dissemination, through virtual classrooms, cannot be undermined. The attempt is to amalgamate traditional ways of learning with innovative ways through use of information technology. E-lessons are the hallmark of the democratization of the learning process.

There is also commitment to enable teaching community to be bi-lingual to be able to create quality material in Hindi. ILLL has taken the responsibility for such capacity building and enhancement by conducting workshops for the same on a regular basis.

Your feedback and support will be the biggest inspiration and encouragement in designing courses and developing e-learning material. Our accomplishments will only be possible because of the participation of our esteemed talented faculty members from various Colleges and University departments.

## Institute of Lifelong Learning

The Institute of Lifelong Learning (ILLL) is dedicated to the cause of those who believe that learning is not age-bound nor classroom-bound, but it takes place throughout life and in all kinds of situations. The Institute has been striving to develop state-of-the-art infrastructure to help Delhi University's teaching and non-teaching staff members and students in capacity building in ICT skills. ILLL is now on the threshold of taking significant strides towards achieving excellence in higher education

### Vision

The vision of the Institute of Life Long Learning (ILLL) is to emerge and make a mark in the realms of lifelong learning and higher education through synergy in academics and Information and Communication Technology (ICT).

ILLL was set-up in 2007 with a view of integrating ICT with the traditional modes of instructional design and delivery in higher education. Presently, the institute is engaged in a tri-dimensional content development framework.

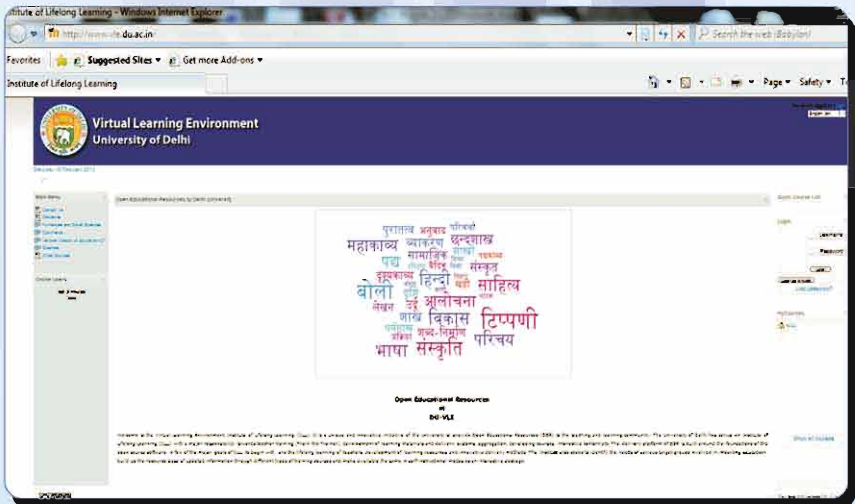


As one of its major plans, ILLL has commissioned and uploaded course material such as lessons, podcasts, self-assessment questions, laboratories and lectures by prominent scholars of Delhi University across many disciplines on the ILLL portal ([www.vle.du.ac.in](http://www.vle.du.ac.in)).

The subjects under “Open Courses” include Chemistry, Commerce, English, Film Studies, Punjabi, Hindi, History (under NME), Physical and Life Sciences, Mathematics as well as Computer Science. Many of these are also being made available in Hindi versions. The students can use the material freely by downloading them in various formats such as HTML, PDF and Interactive (Moodle). More of these open course materials are in the process of being developed.



### ILLL Home Page- [www.illl.du.ac.in](http://www.illl.du.ac.in)



### ILLL Virtual learning Environment Home Page- [www.vle.du.ac.in](http://www.vle.du.ac.in)

Recently ILLL has setup a state-of-the-art audio-visual production facility for recording video lectures (e-lectures), laboratory experiments (e-labs) and for beaming lectures (e-lectures) in real time and otherwise, across institutions.

## **Mission**

ILLL is striving to stimulate, support and sustain a university-wide transformation of educational and lifelong learning curricula, content and capacity building for greater awareness, acceptance and practice of the ethos of lifelong learning and ICT enabled instruction, learning and assessments by the entire teaching fraternity.

## **Objectives @ ILLL**

- ❖ Development of curriculum based multimedia content for its seamless availability to all the teaching and learning community of academic and research institutions world over.
- ❖ Setting up of collaborative virtual learning environment for hosting content for interactions on various academic topics and issues to facilitate learning, caring and sharing through this environment.
- ❖ Organizing workshops, seminars and conferences for capacity building of the entire Delhi University fraternity.
- ❖ Organizing innovative and intellectually stimulating programmes of faculty development and for administrators and staff of University of Delhi and institutions of higher education.
- ❖ Fostering institutional collaborations- national as well as international- towards furthering the vision, mission and objectives of ILLL.
- ❖ Organizing life enriching, employability enhancing and career-oriented courses for the students of University of Delhi. Tirelessly striving for steady improvement in the portfolio, content and reach of such programmes for all.
- ❖ Education, research, development and training to build capability and expertise on best practices and innovations in the areas of lifelong learning and ICT-enabled instruction, learning and assessments.
- ❖ Incubating innovations in Curricula and Content of Higher Education.
- ❖ Encouraging university-wide awareness about and commitment to total quality of educational services and mentoring any initiative/s in this regard.
- ❖ Undertaking and promoting any initiative, activity or programme either on own or in collaboration with any institution- public or private, Indian or foreign- engaged in similar activities.

## Work @ ILLL


### Thrust Areas:

- **National Mission on Education through Information and Communication Technology (NME-ICT) (Ministry of Human Resource Development):** NME-ICT is an ambitious project undertaken by the Ministry of Human Resource Development (MHRD), Government of India with a view to seamlessly providing quality educational content to all the eligible and willing learners in India. It has envisaged content and connectivity as the twin pedals for initiating and accelerating ICT-enabled Higher Education. ILLL sees its role in pushing the pedal of content development. ILLL has been given the mandate for e-Content creation under the six disciplines of Botany, Commerce, Economics, History and Mathematics and Zoology at the undergraduate level under NME-ICT initiative of MHRD. The e-content will be linked to the Sakshat Portal for seamless countrywide availability.



- **e-Resources (e-Lessons, e-Labs, e-Lectures and e-Quizzes):** Development of SCORM (shareable content object reference model) compliant e-Resources (e-learning material, e-quizzes, e-lectures and e-lab) in English. One of the major thrust areas of ILLL is the creation of multimedia-enriched e-Resources by identifying the needs of various target groups involved in imparting and acquiring education. This is done through expanding the resource base of updated information through different types of training courses and makes available the same in self-instructional modes as interactive package for the entire teaching-learning community.
- **Open Educational Resource based on Virtual Learning Environment (VLE):** ILLL is tasked with a major responsibility towards development of learning materials and delivery systems, aggregation, developing courses, interactive content etc. For this purpose ILLL has set up Virtual Learning Environment (VLE) ([www.vle.du.ac.in](http://www.vle.du.ac.in)). VLE is a unique and innovative initiative of the University to provide Open Educational Resources (OER) to the teaching and learning community. The delivery platform of OER is built around the foundations of the open source software.

The collaborative virtual learning environment is used as a platform for hosting content for interactions on various academic topics and issues. Steady improvement in the portfolio, content and reach of such programmes for all is being ensured through constant innovation in the format and presentation and updating of the existing resources.

- **Capacity Building Initiatives:** The Institute has developed state-of-the-art infrastructure to help the teaching, non-teaching and student community of various Indian Universities in capacity building through ICT skills. In its goal to reinventing teaching and learning tools and concepts and keeping in mind the shift from teacher centric to learner centric approach, ILLL has been involved in the training and orientation of the teaching, learning and non-teaching community through workshops and training programmes.
- **Creative Commons License**  **and Anti-plagiarism Software (TURNITIN):** Delhi University has procured a 'Creative Commons' Attribution-Non Commercial-Share Alike license under which seamless exchange of knowledge can happen across the world. Additionally in order to curb the menace of plagiarism and for protection of Intellectual Property Rights Delhi University has purchased the software called 'Turnitin' through which all its e-learning material is routed for addressing plagiarism and similarity issues.

### Ongoing Work@ ILLL

- **NME-ICT Project under MHRD:** The NME-ICT Project was granted to the University of Delhi by, Department of Higher Education, Ministry of Human Resource Development, Government of India. ILLL is an active partner under this project. Prof Ramesh Gautam is the Project Investigator of the Pilot project. Pilot project involves the development of e-content for six disciplines- Botany, Commerce, Economics, History, Mathematics and Zoology (two annual papers each). The pilot project in the subject of History was successfully completed with e-content being generated in two undergraduate papers- *Ancient India* and *Modern India*. The work on the other subjects has commenced in full earnest with the induction of Fellows in Botany, Commerce, Economics, Mathematics and Zoology at ILLL in the month of October 2012. Eminent Academicians have been appointed course coordinators, content developers/reviewers and editors. The progress so far has been satisfactory. For instance in Commerce work on two papers namely *Advertising and Sales Promotion* has commenced and 19 lessons have been prepared. In Economics preparation of 13 Chapters in the course *Micro Economics* has got completed. In Botany, 17 chapters have been completed in one paper namely *Cell Biology*. In another paper titled *Bioinformatics*, 13 chapters are ready. In Mathematics, two papers namely *Differential Equations & Mathematical Modeling –II* and *Mathematics and Statistics* have been picked up for preparation of e-content. Nearly 13 chapters have been prepared. In Zoology, course content is being prepared in areas of

*Animal Physiology and Functional Histology* and around 27 lessons are being developed at present. We hope to develop more courses in these disciplines under the NME-ICT scheme.

➤ **E-Resources:**

**“.....Where knowledge is free;  
Where the world has not been broken up into fragments...”**  
**Tagore, *Gitanjali***

Since the inception of the Institute of Lifelong Learning (ILL) in 2007, there has been a growing pool of multifaceted content being generated in a range of subjects like Botany, Chemistry, Commerce, Economics, English, Hindi, History, Mathematics, Physics, Political Science and Zoology. Steps have been taken to prepare material in Hindi in Social Sciences and Humanities. For this purpose translation of material prepared in English has been done. With the availability of Turnitin prepared material has been reassessed by in-house fellows and after removing similarity index it has been uploaded. This has been a continuous endeavour. ILL is engaged in developing ICT enabled resources to be made available at its portal of 'Virtual Learning Environment' under various subject categories and also under National Mission on Education (NME) for six subjects. The institute has evolved as a premier center for research and innovation to provide e-lessons, e-lectures, podcasts, translations, quizzes, and so on.

The modus-operandi of preparing e-resources is to ensure originality of the content developed by the authors. Authors include faculty from different universities and research scholars. The content is run through 'Turnitin' software to indicate the similarity index, which is taken care of in case of high similarity with other online content. The e-content is then preliminary reviewed by the fellows of ILL after which it is sent to outside expert reviewers for review with respect to coherence, level and quality of text, coverage for the undergraduate curricula, attainment of learning objectives, relevance of in-text images, importance of value additions, ease of understanding, language, glossary, exercises and so on. After incorporating the inputs of the expert reviewers on the above parameters and other suggestions, the lessons are revised. Attempts are made to make animations for the lessons, include case studies, videos, and interviews with industry people and self-assessment e-quizzes for e-lessons. Such multi-media affects are included to make the lessons more interesting and for retaining the attention span and learning zeal amongst the students.

A glance at what follows reflects the dedicated synergy amongst all the stakeholders, which is an essential part of this on-going exercise.

**Subject-wise details of work at hand and prospective tasks in near future:**

**I. BOTANY**

Preparation of e-content under NME (MHRD) is currently in progress. Several activities have already been carried out. For instance:

- a) **E-lessons in *Bioinformatics* and *Cell Biology***: Catering to the undergraduate students of B.Sc. Life Sciences and B.Sc. (Honours) Botany.
- b) **E-lectures** have been recorded in the applied aspects of Bio-informatics, such as Drug Designing and Molecular Phylogeny.
- c) **Lab manuals** for the above papers for facilitating the practical component of teaching and learning.
- d) **Workshops** for capacity building were organized in *Techniques in Biotechnology and Bioinformatics*.
- e) **In the Pipeline**: Work in areas like *Plant Anatomy, Plant Systematics and evolution, Mycology and Phytopathology, Ecology, Environmental Management, Plant Embryology, Plant Diversity* are planned.

## II. CHEMISTRY

To generate high quality e-content highly enriched with innovative animations, value additions and multimedia desired to meet international standards the content writers have been appointed in Chemistry.

- a) **E-Learning Material**: Keeping in view the need of the four-year course structure the authors have already started work for the e-content development in various topics of *Analytical, Physical, Organic and Inorganic Chemistry*. Some valuable earlier work is being reviewed for updating. E-quizzes have been developed recently.
- b) **Future Goals**:

To develop content regarding *Chemistry in Daily life* and *Chemistry and Environment*, as they are in the domain of Interdisciplinary courses. Lessons on *Food Adulteration* and some easy experiments to check it are also in the pipeline. Recording of few simplified innovative experiments is planned. Many chapters, which are currently in Turnitin, of B.Sc. Physical Sciences are now being modified according the syllabus of B. Sc. (H) Chemistry courses for wider reach.

## III COMMERCE

E-content has been developed under NME for two courses for the student community at the undergraduate level. The courses chosen for the same are *Advertising and Sales Promotion* and *Public Relations*, which are relevant in an inter-disciplinary environment. The content has been developed in multimedia format including case studies, animation, videos, images and links to other websites containing related information. The lessons include a number of value additions that are an attempt to take learners a step ahead in their learning experience. The e-lessons and e-quizzes are ready to be uploaded and a few of them have already been uploaded.

**In the Pipeline**: E-Lectures for topics in Commerce, Interviews with Corporate executives and a one-day workshop on Microsoft Visio for the faculty and research scholars enabling them to create figures and diagrams creatively and innovatively for e-lessons, presentations etc.



#### IV. ECONOMICS

As mandated in the in the NME Project, e-content for two papers on **Microeconomics** and **Macroeconomics**, both basic courses taught in all Universities, is being created. Many of the lessons have been reviewed and will be uploaded soon. In addition to the NME Project, the Economics team is in the process of uploading e-chapter on **Microeconomics** in **Hindi Medium** for the benefit of all students under the present scheme and the forthcoming four year degree programme.

**In the Pipeline:** A two-day Workshop on '**Power of Ethics in Learning**' to be organized jointly by ILL and the Centre for Ethics and Values, Ramanujan College, for the Foundation Course in the four year degree programme is envisaged.

#### V. ENGLISH

The virtual learning content in English has been moving in different directions including content both from Language and Literature as well as those that are interdisciplinary in nature. Different mediums like Video lectures, Transcriptions, Performances of excerpts and adaptations of Shakespeare's Plays, accompanied by Panel Discussions have been explored to deliver content to learners. The idea is to introduce our content in a way that is accessible and creative for our learners.

- a) **Literature:** Content for several prescribed texts sourced from the English Honours syllabus of all the three years has been finalised and uploaded. The units recently added to the website are: *Heart of Darkness*, *Accidental Death of an Anarchist*, *The Overcrowded Barracoon*, *Chronicle of a Death Foretold*, G.M. Muktibodh, Nissim Ezekiel, *The Rape of the Lock*, *Goblin Market*, William Blake, *Sons and Lovers* and *Ghasiram Kotwal*. The focus in these units is to provide the learners an interactive atmosphere and give them as much visual and aural impetus to have a more holistic approach to the texts.
- b) **Language:** In the Language section, multimedia content has been developed on select units sourced from prescribed texts for the B.A. Programme First and Second Years of both Stream A and Stream B. All lessons include components of biography, analysis, summary outline, testing, and bibliography. These lessons are highly interactive and underscore the significance of creating a cohesive atmosphere for learners.
- c) **Video Lectures:** Video lectures on Shakespeare, Postcolonial Theory and Feminism by Prof R. W. Desai and Taisha Abraham respectively. These lectures are both generic and specific and can be accessed on the [www.vle.du.ac.in](http://www.vle.du.ac.in) website.
- d) **Performances and Panel Discussions:** To address the concerns of the lack of exposure to many contemporary learners to the actual performance of many canonical texts, a novel and creative project has been undertaken by the ILL team. College theatre groups have volunteered to perform scenes and excerpts from well-known plays and also reinforce it with a discussion on the performance.

## VI. हिंदी

अब तक लगभग 68 ई-पाठों को रिव्यू करके अपलोड करने की अनुशंसा की गयी है जिनमें से अधिकांश अपलोड हो गये हैं। कुछ पाठों में सुधार की जरूरत थी, उन्हें समुचित सुधार हेतु संबंधित लेखकों को भेज दिया गया है। दिल्ली विश्वविद्यालय के स्नातक स्तरीय पाठ्यक्रम से संबंधित लगभग पचास इ-पाठ तैयार हो रहे हैं। अंग्रेजी में लिखे गए फिल्म अध्ययन, भाषा और समाज, भाषा और लिंग, भाषा और संस्कृति तथा कानूनी साक्षरता (लीगल लिटेरेसी) आदि विषयों से सम्बन्धित ई-पाठों का हिंदी अनुवाद/वैटिंग कर अपलोड करने की अनुशंसा कर दी गयी है। कंप्यूटर पर हिंदी में काम करने में दक्षता हासिल करने के लिए दिल्ली विश्वविद्यालय के लगभग पचास शिक्षकों को प्रशिक्षित किया गया है। इसके अतिरिक्त ILLL के वेबसाइट को पूर्णतः द्विभाषिक किया जा चुका है।

## VII. HISTORY

In History e-material has been prepared in Indian and European History. Steps are being taken to prepare e-lectures and e-content in more courses.

## VIII. LEGAL LITERACY

Woven around the syllabi of B.A. (Programme) Application Course for third year students, the content aims to bring law within the reach of the young and the old alike who could benefit from it in more ways than one. This is also taking the first step to bring law out of the preserve of Law Schools so as to make it accessible and readable for citizens who possess a reasonable degree of education. The content has sought to break down complex laws in simple language with the aid of multi-media and illustrations from case studies. Images, graphics, cartoons, pod casts interviews and films have been used across e-lessons while an overview of laws on Intellectual Property Rights has been conducted in a virtual class room.

*Ready for Uploading* is a repository of material dealing with utility of Legal Literacy as the *need of the hour*, the *System of Courts and Tribunals in India*, *Specialized Courts*, including *Juvenile and Mahila Courts*, *Alternative Redressal Mechanism in India*, *Concepts in Law: burden of proof and fair comment*, *Criminal Law and Criminal Procedure*, *Important Offences under the I.P.C*, the *Law of Evidence*, laws on *Cyber Crimes and Crimes against Women* with latest case laws and recommendations of the Justice Verma Committee alongside Presidential Ordinance of 2013, promulgated in the wake of the moving bus gang rape case, 2012.

Legal Literacy seems to have arrived at the most opportune time!

## IX. MATHEMATICS

The two courses for which content is being developed under NME are: *Algebra I* and *Differential Equations and Mathematical Modelling*. These were designed after a brainstorming session with the subject experts from the university. Care has been taken to design the lessons in an interesting and easy to understandable manner by incorporating the mathematical techniques in a creative manner.

## X. PHYSICS

The brief for developing e-content in various papers of Physics was to create an interactive module of e-learning material to equip students to work in a technology supported environment and to bring them at par with global learners by meeting the demands of innovation, creativity and aggregation. The existing content on the VLE website of ILLL is being re-visited in order to enrich it further by doing an internal review to update and upgrade it. *E-quizzes* are being designed in the form of self-evaluation exercises to help students assess their knowledge and understanding of various topics being covered under e-lessons. A brief outline of the work undertaken at present is given below:

- a) **E-Lessons:** Work has started for the development of e-lessons in various disciplines of Physics at the undergraduate level. The disciplines being covered at present are *Mechanics, Electricity and Magnetism, Mathematical Physics, Vibrations and Waves, Thermal Physics, Optics, Digital Electronics, Microprocessor and Computer Programming, Quantum Mechanics, Electronic Devices, Solid State Physics and Nuclear and Particle Physics.*
- b) **Revisiting existing work:** A number of e-lessons, e-quizzes and e-labs have already been developed in various disciplines of Physics and which are currently available on the VLE website. An internal review of this e-learning material is being undertaken to update the said material.
- c) **In the Pipeline:** Work is being initiated for development of e-learning material in other disciplines of Physics to bring the entire undergraduate level Physics under the ambit of ILLL. Very soon more areas of Physics will be covered under e-labs to make accessible virtual laboratory environment to all students particularly those who do not have access to real labs or lab manuals. Conduct of workshops and seminars is also being planned for capacity building at the university level.

## XI. POLITICAL SCIENCE

E-content is being generated in the papers - *Political Theory* and *Contemporary India* for the undergraduate level. Political Theory, as a subject, has been largely dominated by the American Political Science Association. Courses in Political Theory not only carry theoretical concepts but also dense references for reading. For an average student, the technical jargon in the paper is difficult to comprehend. This challenge is manifold for students whose medium of instruction is Hindi, confronted as they are with limited reading material. Therefore, e-content in the course on Political Theory for the undergraduate level is being generated at ILLL in both Hindi and English.

There are also plans afoot to record e-lectures by eminent academicians in diverse areas.

## XII. ZOOLOGY

The prime objective to develop e-content for various papers in Zoology is to provide the learners a holistic view of the subject. A brief outline of the work undertaken at present is given below:

- a) **Developing e-content:** As a part of the prestigious project under the National Mission on Education (NME), e-content for the two papers: *Animal Physiology and Functional Histology I and II* are being prepared. These e-content include: E-lessons, written in easy to understand language enriched with multimedia, value additions, links to useful websites, assessments, the formative and summative questions are embedded in the lesson itself, and On-line e-quiz, multiple choice questions with explanation of each option that enables students to assess themselves after browsing the content. Besides the papers for NME, E-contents are also being developed in the disciplines like *Immunology, Ecology, Molecular Biology and Cell Biology*. Besides e-lesson and e-quizzes, e-labs and e-lectures are also being prepared for better understanding of the concept.
- b) **Revisiting existing work:** A number of e-lessons, e-quizzes, e-lectures and e-labs have already been developed in *Foundation course in Biology, Non-Chordata, Chordata, Physiology, Biochemistry, Immunology and Cell Biology*. The previously developed content are run through the 'Turnitin' software to know the similarity index. An internal review of this e-learning material is being undertaken to revise, clean and update it for uploading in the portal.
- c) **Future goals:** To complete and upload the contents for various disciplines of Zoology. Conduct workshop/ seminars for capacity building of Zoology teachers. To promote the concept of e-learning among teachers and students.

### ➤ **Initiatives @ ILL South Campus:**

Earlier, Fellows at ILL South Campus developed e-lessons for various undergraduate courses such as *Compulsory English, Business Law, Corporate Law, Business Communication, Cultural Diversity in India, Film Studies, Mathematical Awareness, Language, Literature and Culture* and *Social Inquiry*. While most of this e-material has already been uploaded, there is also a substantial number of e-lessons almost ready for the following courses of B.A. Programme: *Translation and Interpreting, Life Crisis: Coping and Evolving* and *Legal Literacy*. In fact some lessons on *Legal Literacy* too have already been uploaded. E-content and e-learning material is currently being developed for the following courses of B.A. Programme: *Contemporary India, Mass Communication, Theatre and Performance* and *Conflict Resolution and Peace-building*. In addition to *Conversations with Writers*, useful dialogues with eminent scholars were also recorded and uploaded for the course on *Social Enquiry*.

Recently, under the able guidance of Prof. R. C. Kuhad, Joint Director, ILLS South Campus has also been engaged in developing e-content for such science disciplines as Botany, Chemistry, Physics and Zoology. Additionally, under the project on National Mission on Education through "Information and Communication Technology", MHRD, e-content is being prepared for Botany and Zoology. One of the future objectives is to also include Biochemistry, Chemistry, Microbiology and Physics under this scheme. The Institute will also soon take up the creation of e-learning material for Computer Science, Mathematics and Mathematical Sciences etc. A number of e-quizzes have been uploaded in various Science disciplines. The e-learning material being developed at ILLS, South Campus includes e-lessons, e-labs, e-lectures, e-quizzes and interviews.

In addition to developing e-learning material in English language, the ILLS at the South Campus has taken an important initiative to provide e-learning material in Hindi language. All the lessons of "Film Studies" for B. A. Programme have been translated into Hindi. Several interviews have also been translated in Hindi and uploaded. The ILLS at South Campus also organizes workshops for students and teachers for enhancing their skill-set, to get their feedback and to update them on new resources. Recently ILLS, South Campus was involved in organizing workshops in Biotechnology, Bio-informatics and Legal Literacy.

➤ **ILLS- The Local knowledge hub with a Global reach: International Collaborations**

Realizing the potential of inter-institutional and international associations to gain global perspective, ILLS has joined hands with like-minded partners transcending boundaries for the benefit of academicians. Of note are the collaborations with:

- **Memorandum of Understanding (MoU) with Massey University, New Zealand** - The Institute of Lifelong Learning is also part of wider network of local and international academic institutions. The aim is to facilitate exchange of ideas among learners and creators of Knowledge. In this connection a MoU was signed with the University of Massey and the University of Delhi on 23 August 2012. Under it students and faculty members from both universities would get an opportunity to interact with each other. At ILLS, Prof. Shormishtha Panja and Dr. Amrit Kaur Basra have been appointed as point persons.
- **Memorandum of Agreement (MoA) with the University of Edinburgh**- It was signed on 30<sup>th</sup> November 2013 for beaming of on-line lectures. It would provide an opportunity to Panel Experts and students from both universities to discuss and deliberate on prescreened lectures in real time. Ms. Anubha Anushree and Dr. Jaikishen Prashar are point persons from ILLS to implement the programme. In the meeting held at ILLS on 13 February 2013 a date has been fixed for holding the first session of such interaction. ILLS would contact students to become part of this programme.
- Additionally ILLS on behalf of University of Delhi has hosted the visits of foreign delegates from countries like Bhutan and others, facilitating exchange of ideas and resources.

- **E-Journals @ Delhi University:** The University of Delhi has announced three new journals on Creative Writing, the Humanities and the Social Sciences, and the Natural Sciences. These journals will be open-access, free of charge, on-line journals (with no print edition) primarily foregrounding significant work by students and teachers at DU. The journals will have eminent advisors and peer reviewers.
- **DU-Vidha/ -A Journal of Creative Writing:** It will be a bilingual journal in both English and Hindi. Its title, DU-Vidha is intended to signify (a) literary genres (vidha) as practiced in Delhi University, as well as (b) creative dilemma and deliberation, as experienced by writers in negotiating the content and expression of their thoughts. The journal is meant primarily for students, undergraduate as well as postgraduate, while some space will be available for contributions by members of the faculty and staff as well.
- **The Delhi University Journal of the Humanities and the Social Sciences:** The University of Delhi proposes to publish a research journal of the Humanities and the Social Sciences.
- **The Delhi University Journal of the Natural Sciences:** The University of Delhi proposes to publish a research journal of the Natural Sciences (Physics, Chemistry, Biology, Mathematics, Geology and Earth Sciences).

### ➤ हिन्दी में ई- पुस्तके

#### राजनीति विज्ञान

- 1) तुलनात्मक राजनीतिक सिद्धांत के सन्दर्भ :संपादक, बलवान गौतम
- 2) राजनीतिक सिद्धांत :अवधारणाएँ एवं विमर्श :संपादक, बलवान गौतम
- 3) भारत में संवैधानिक लोकतंत्र एवं सरकार :संपादक, बी.एन.चौधरी एवं युवराज कुमार
- 4) भारत में राजनीतिक प्रक्रियाएँ :संपादक, बी.एन.चौधरी एवं युवराज कुमार

#### अर्थशास्त्र

- 1) व्यष्टि अर्थशास्त्र के सिद्धांत : संपादक, जय किशन एवं बिबेक कुमार रजक

#### इतिहास

- 1) भारतीय उपमहाद्वीप की संस्कृतियों ,भाग ,1-संपादक, आर.सी.ठाकरान,शिवदत्त एवं संजय कुमार
- 2) भारतीय उपमहाद्वीप की संस्कृतियों ,भाग ,२-संपादक, आर.सी.ठाकरान,शिवदत्त एवं संजय कुमार

उपरोक्त पुस्तकें ई-पुस्तकों के रूप में रूपांतरित की जा रही हैं | विश्वविद्यालय अधिकारियों से अनुमति मिलने के बाद शीघ्र ही इन्हें जीवन पर्यंत शिक्षण संस्थान,दिल्ली विश्वविद्यालय के पोर्टल पर अपलोड कर दिया जायेगा |

➤ **Delhi University History Project:**

An initiative of Prof. Dinesh Singh, Vice Chancellor, University of Delhi, it aims to codify and organize history of the University and the heritage that is encompasses in the historical building of the Vice Regal Lodge, Northern Ridge and the surrounding vicinity. The work commenced in the month of March 2012 by Dr. Amrit Kaur Basra, Fellow in History at ILL. Under it, the Archives has been relocated and organized in the three floors of Vice Regal Lodge. The mapping of monuments on the Northern Ridge was made. It has been decided to conduct historical walks showcasing both the Archives and the monuments on the Ridge on regular basis. For the conduct of these tours, students have been trained. The first batch of student volunteers is ready to conduct these tours during Antardhvani. This just the beginning, gradually student volunteers would be trained to conduct tours for civil population as well. For the use of spaces around these monuments and their upkeep, University of Delhi is in process of signing a MoU with the Archeological Survey of India.

One strand of project is connected with writing the script on the History of the University of Delhi and to showcase it in form of Light and Sound Programme. This research on the history of the University of Delhi would result in publication of a book.

The project has taken wings under the guidance and supervision of Prof. Malashri Lal, Dean Academic Activities and Projects. It has also provided an opportunity to the students to become part of this initiative.

## **FEEDBACK**

Responses to the VLE site by users, both the student and the teaching community, have added to our vision. There is growing awareness of new approaches to learning. Erstwhile boundaries between colleges and campuses have given way to a sense of community learning . What is especially heartening to learn is that barriers of access to knowledge encountered by the knowledge seekers especially the differently-abled have been dissolved by the open D.U. Portal .

## **Shakespeare at ILL**



# Institute of Lifelong L





# Learning Fraternity



# ILLL Infrastructure



## MoU between University of Delhi and Massey University



## MoA between University of Delhi and University of Edinburgh

