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E-Learning Content Development and Hosting Abhishek Kumar and Jagdish Arora

Editorial Board

Dr. Jagdish Arora

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From the Director's Desk



A wide variety of curriculabased content targeted to the undergraduate and postgraduate students in colleges and universities are now available through a number of independent platforms, such as Sakshat (http://www.sakshat.ac.in), NPTEL

(http://nptel.iitm.ac.in), E- Gyankosh (http://egyankosh.ac.in), CEC (http// :www.ugc- cec.ac.in), etc. Several of these initiatives are funded by the National Mission on Education through ICT, Ministry of Human Resource Development (MHRD).

However, most of the content that are available on the platforms mentioned above are "static" in nature and text-heavy, devoid of interactivity, bells and whistles that can be built into digital content using tools and techniques of new ICTs. Such textheavy content or video recordings of lectures do not qualify to be a good candidate for e-content. Educational materials in these formats do not offer interactivity and thus do not ensure student participation. As such, they fail the most critical test of learning content effectively. Combination of text, graphics, animation, video and interactive guizzes is a better approach. The best form of learning is where the student is kept engaged through the process of imparting education. In the traditional classroom situation, there are a number of ways to assess whether or not students are actually assimilating instruction, e.g. the teacher may pose questions or conduct formal assessments to gauge the level of understanding of each student. Likewise, for an online learning session to be effective, the courseware must include interactive features that facilitate "immersive learning". This might be in form of "interactive elements" that students can engage with as they progress through the conceptual learning materials, or it may be a fullfledged simulation that tests both understanding and skills within the context. Moreover, all content must be fully SCORM-2004 (Sharable Content Object Reference Model) compliant to allow interoperability and consistency. Learning content should be modular to encourage mix-and-matching of existing content and should be designed using the latest standardised technologies, such as HTML 5, CSS, etc.

The most effective digital learning content is one where the knowledge of the "domain expert" is married to the multimedia skills of web designers and instructional designers so as to ensure that high-quality curriculum and demand-based interactive content incorporating graphics, animation, simulations, assignments, question bank, quizzes, etc., are created by the competent subject experts with aid of web and graphic designers. As such, to fully leverage the benefits offered by new ICT, content creation teams must comprise of domain experts, web designers and instructional designers. Working collectively, such teams will be able to conceptualise innovative approaches to developing content that would fully engage users with interactive digital content.

The INFLIBNET Centre has recently been assigned the task of coordinating the activity of content creation at postgraduate level in 77 subjects. While services of subject coordinators, paper coordinators and content writers in being engaged as domain experts to write textual content along with script to incorporate multimedia, the INFLIBNET Centre would take the responsibility of enriching these content with multi-media and hosting them on to SCORM- complaint digital repository. The Centre already has the desired expertise in web interface designing. We, however, would be required to develop the requisite expertise in multimedia either by training the existing manpower or by hiring them. Part of the activities can also be outsources to the jobbers. The topic of the cutting-edge technology in LIS in this issue is "E-learning" by Shri Abhishek Kumar and Dr. Jagdish Arora.

Major activities during the quarter under report includes i) 8th PLANNER 2012 at Sikkim University from 1st to 3rd March, 2012; ii) National Seminar on Managing Electronic Theses and Dissertations at JNU, New Delhi from 22 – 23rd May, 2012; iii) IRTPLA at Manonmaniam Sundarnar University, Tirunelveli from March 26-30, 2012; iv) 100th and 101st SOUL Training Programmes at the INFLIBNET Centre from Jan. 30 to Feb. 3, 2012 and from March 12 to 16, 2012; and v) UGC INFONET / NLIST User Awareness Programmes in 5 universities / colleges.

The beginning for the year 2012 was marked with signing of MoU with the Knowledge Consortium of Gujarat (KCC) for NLIST as well as for QJAS. Through these MoUs, the INFLIBNET would be extending access to e-resources to 936 colleges in Gujarat and would publish KCG's flagship journals on QJAS in open access. This issue also heralds the beginning of the new-year as well as the new financial year which brings lot of new activities to the Centre. We wish a very happy and prosperous new year to all our readers.

(Jagdish Arora)

8th PLANNER 2012, Sikkim University, March 1-3, 2012

The 8th PLANNER 2012 (Promotion of Library Automation and Networking in North Eastern Region) was organised by the INFLIBNET Centre at Sikkim University, Gangtok from 1st to 3rd March 2012 on the theme "Building Participatory Library Services in Digital Era", in collaboration with the Sikkim University, Gangtok. The main theme of the convention was divided into three sub- themes, namely i) Participatory Web Tools; ii) Academic Libraries in Participatory Era; and iii) Building Infrastructure for Participation. Inaugural Session of the Convention was held at Sikkim Manipal Institute of Medical Sciences on 1st March 2012, all the remaining sessions were held at Hotel Tashi Delake on 2nd and 3rd March 2012. The Convention was attended by 305 delegates and invitees from all over the country. 11 publishers participated in the exhibition arranged as part of the Convention. Out of 95 submissions, 51 papers were selected for presentation and 17 papers were selected for poster presentations.



Dignitaries on the Dias (from left to right) Dr Tamal Guha, Librarian, Sikkim University, Dr Pawan Gupta, Adjunct Professor and Former Director, Rajasthan University, Prof. Mahendra P Lama, Vice Chancellor, Sikkim University, Dr. Jagdish Arora, Director, INFLIBNET Centre, Prof. A.S. Chandel, North Eastern Hill University and Shri Ashok Kumar Rai, Scientist D (LS), INFLIBNET Centre during Inaugural Session of PLANNER 2012

Inaugural Session

Dr. Tamal Kumar Guha, Librarian, Sikkim University and Organizing Secretary for the 8th PLANNER 2012, welcomed the dignitaries on the dais as well as guests and the participants. Dr Jagdish Arora, Director, INFLIBNET Centre deliberated on the activities and services of the INFLIBNET Centre with special reference to NE India. The Convention was inaugurated by Prof Mahendra P Lama, Vice Chancellor, Sikkim University. Prof. Lama, in his inaugural speech, emphasized on the responsibilities that LIS professionals have to shoulder for collection, organization, dissemination and preservation of conventional as well as nonconventional documents. Dr Pawan Gupta, Adjunct Professor and Former Director, Rajasthan University Library, Jaipur, in his keynote speech, traced evolution of communication from sign language and spoken words millions of years ago to the printing technology in 1500 and to herald of Internet and web technology. Prof. A.S. Chandel, Department of Library and

> Information Science, North Eastern Hill University, Shilong, in his address, deliberated on various aspects of the themes and sub-themes of Convention. Prof. Narendra Lahkar, Department of Library and Information Science, Gauhati University, Guwahati was the Rapporteur General of the Convention. Sh. Ashok Kumar Rai, Scientist D (LS), INFLIBNET Centre, as Convener of the Convention, presented a warm vote of thanks to invitees, participants, authorities of university and experts on behalf of INFLIBNET Centre.

> Prof. Mahendra P Lama, Vice Chancellor, Sikkim University released the printed Proceedings of the convention as well as its CD having 54 full-text papers and 17 abstracts and the Manual for Shodhganga. Prof. Lama also launched the "INFOPORT: INFLIBNET's Subject Gateway for Indian Electronic-Resources" developed by the INFLIBNET Centre. Dr. Jagdish Arora, Director, INFLIBNET Centre released Souvenir of the Convention. Prof. Lama, on behalf of Sikkim University, signed the MOU on Shodhganga with INFLIBNET centre.

Tutorials

Pre- convention tutorials were delivered on "NLIST, Shodhganga" and "SOUL 2.0" on 1st March 2012 for the benefit of participants of the Convention. The tutorials on "NLIST: E-resources for Colleges & Shodhganga: A Reservoir of Indian Theses" was presented by Shri Manoj Kumar K, Scientist D (CS), INFLIBNET Centre, and "SOUL 2.0" was presented by Shri Yatrik Patel, Scientist D (CS), INFLIBNET Centre. 150 delegates attended tutorials.

Technical Sessions

The following theme papers were presented by invited theme speakers during the Technical Session:

Sl.No	Theme	Торіс	Theme Speaker
1	Participatory Web Tools	Web Scale Discovery Tools	Sh Prem Chand, Librarian, IIAS, Shimla
2	Academic Libraries in Participatory Era	Academic Libraries in the Participatory Age	Dr B B Sahoo, Assistant Librarian, IIT Delhi



Delegates of the 8th PLANNER 2012

There were 6 technical sessions held during three days wherein 33 papers were presented on various themes as per the details given below:

Sessions	Theme	Chairperson	Co-chairman/Rapporteur	No of papers presented
Session 1	Participatory Web Tools	Dr MS Rana	Ms Jyoti Bhatt	5
Session 2	Academic Libraries in Participatory Era	Prof Pravakar Rath	Dr M S Lohar	5
Session 3	Academic Libraries in Participatory Era	Dr Khomdon Singh	Dr Neeraj Kumar	4
Session 4	Academic Libraries in Participatory Era	Dr T Temjen	Dr Lalriamasami	7
Session 5	Building Infrastructure for Participation	Dr Mukesh Saikia	Dr S K Singh	7

Panel Discussion

A panel discussion on the theme of the Convention "Building Participatory Library Services in Digital Fra" was organized prior to the concluding session of Convention. Dr. Jagdish Arora, Directror, INFLIBNET Centre, chaired the panel discussion with Dr A R D Prasad, Professor, DRTC, Bangalore, Dr R K Chadha, bint Secretary, Lok Sabha and Ms. Anju Vyas, Librarian, CWDS, New Delhi were panelist for the session. Dr. ARD Prasad presented a case study on Librarian's Digital Repository set-up at the DRTC, Bangalore and stressed upon the importance of participation for building-up a collaborative collections and services. Dr. R. K. Chadha elaborated on his experience with Members of Parliament and use of ICT in the proceedings of Lok Sabha. Ms. Anju Vyas made an elaborate presentation on her experience of running a list serv called "Bol" for women in India. Dr. jagdish Arora summed-up discussions with examples of collaborative tools and techniques used by the INFLIBNET Centre for delivering its services to the users.

Valedictory Session

The Valedictory Session was chaired by Dr Jagdish Arora, Director, IN FLIBNET. Dr Jyoti Prakash Tam ang, Registrar, Sikkim University was the Chief Guest of the Valedictory Session. Prof. Narendra Lahkar, Rapporteur General of the Convention presented a detailed report on the proceedings of the convention. Dr. Tam ang delve, in his Valedictory Address, delve upon the changing roles of librarians in the ICT era. Dr T K Guha, Organizing Secretary presented the vote of thanks on behalf of Sikkim University.

The following major recommendations were made during the deliberations of the convention:

- To set-up a Knowledge Repository Centre (KRC) in the universities in participatory mode funded by INFLIBNET Centre.
- To constitute a "Policy Making Body", with proactive intervention of INFLIBNET Centre, for drafting standards for various activities of a library including its services, staff, infrastructure, library buildings and other related areas and activities.
- Establish a Network of Libraries in North Eastern Region for promoting cooperation, collaboration, participation and resources sharing.
- Setting-up of Computer Laboratories equipped with Internetenabled PCs and other equipment with funds from the INFLIBNET Centre for imparting "hands- on" training

programmes to library professionals in creating databases, IRs, content generation, etc as well as for conducting awareness programmes.

- The INFLIBNET Centre may link-up SOUL software with its Union Catalogue for NE Region (NERCat) that contains the holdings of university libraries in NE Region and facilitate inter-library loan and maintenance of related statistic.
- Keeping in view of the difficulties in deputing working personnel from the universities, colleges and other institutions to the Attachment Training Programme (ATP) of INFLIBNET, minimize the present term of the ATP to maximum of two months and extend the ATP to the students from Northeast who have recently completed their MLIS) from recognized universities of the North East Region.
- Explore avenues to provide financial grants to the college libraries for infrastructural development.

National Workshop on Creation and Management of Digital Collection, INFLIBNET Centre, February 13-17, 2012

The INFLIBNET Centre, Ahmedabad organized five days National Workshop on "Creation and Management of Digital Collections" from 13th to 17th February, 2012. The workshop was inaugurated by Dr. Jagdish Arora, Director, INFLIBNET Centre, Ahmedabad.

This workshop aimed at equipping the participants with skills for developing and managing their own digital collections with special reference to managing information sources in a digital environment, building institutional repository, use of social media, management of e-resources etc. Lectures were also arranged on latest trends and development in LIS. While the morning sessions were devoted to theoretical talks and presentation, afternoon sessions were exclusively devoted as "hands- on" training in computer laboratory.

The following topics were covered in the Workshop and 'handson' sessions:

- Digitization and Digital Preservation
- · Working with Linux : Basic commands.
- Institutional Repositories and Digital Libraries
- Metadata Standards for Digital Collection
- Digital collection building using DSpace: Installation & Configuration
- Digital collection building using DSpace:Administration & Customization

- Digital collection building using DSpace: Workflow & Submissions
- IPR and Security aspects of IR
- Web 2.0 and Social Networking
- Library Automation and latest trends in ICT
- Access to e-resources subscribed under different consortium

Dr. Anil Kumar, Librarian, IIM, Ahmedabad, Dr. Shailesh Yagnik, Librarian, MICA, Ahmedabad, Dr. Yogendra Singh, Librarian, IIT Roockee and Dr. T S Kumbar, Librarian, IIT Gandhinagar, Shri Manoj Kumar K, Scientist D (CS), Sh Ashok Kumar Rai, Scientist-D(CS) Sh Yatrik Patel, Scientist-D(CS) were the resource persons for the Workshop. Shri P Kannan, Scientist B (IS), Shri Swapnil Patel, Scientist B (CS), Shri Vijay Shrimali, STA (CS) and Shri Imran Mansuri, Project Officer (LS) were resource persons in the practical session. Shri Yatrik Patel, Scientist D (CS) and Shri H G Hosamani, Scientist C (LS) Coordinated the workshop. 20 participants from different parts of the country attended the workshop.



Participants of Creation and Management of Digital Collection with the Director and Technical Staff of the INFLIBNET Centre

National Seminar on "Managing Electronic Theses and Dissertations", JNU, New Delhi, March 22-23, 2012

The National Seminar on Managing Electronic Theses and Dissertations (ETDs) was organized by Central Library, Jawaharlal Nehru University, New Delhi, in collaboration with the INFLIBNET Centre, Ahmedabad on 22nd and 23rd March, 2012 at JNU, New Delhi. This Seminar was first of its kind since it was exclusively devoted to managing electronic theses and dissertations. The Meeting of the INFLIBNET's National Committee on ETDs coincided with this event enabling members to participate in



Prof. Sudha Pai, Rector, Jawaharlal Nehru University, New Delhi Lighting the Traditional Lamp during inauguration the seminar along with Dr. Jagdish Arora, Director, Dr R. C. Gaur, University Librarian, and Dr. Dev Swaroop, Joint Secretary, UGC.

the event as well as to examine and evaluate the progress made and strategies for promoting Shodhganga during the meeting.

The two-day seminar was focused on the potential of electronic theses and dissertations and methodology to manage them. The Seminar provided a national forum for academicians, researchers, practitioners, librarians and policy makers to deliberate upon the issues pertaining to management of electronic theses and dissertations.

The Seminar was inaugurated by Prof.Sudha Pai, Rector, Jawaharlal Nehru University, New Delhi. Prof Pai elaborated on the importance of theses and dissertations as primary source of information and said that a policy needs to be evolved for digitizing and preserving the theses and dissertations for future needs. Dr R.C.Gaur, University Librarian, gave an account of initiatives taken at the JNU for creating an ETD archive. Dr. Dev Swaroop, Joint Secretary, UGC, opined that theses and dissertations should be preserved for posterity and made accessible to the scholarly community. He said that the need of the hour is to formulate policies in order to handle issues of Intellectual Property Rights (IPR), plagiarism and long-term preservation. He promised whole-hearted support of the UGC to Shodhganga initiative taken by the INFLIBNET Centre.

Dr Jagdish Arora, Director INFLIBNET, elaborating on Shodhganga initiative highlighting the benefit of providing access to theses and dissertations in open access mode. Dr Arora informed the delegates that UGC has mandated electronic submission of Ph.D theses vide UGC Regulation 2009 (minimum standards and Procedure for award of M.Phil / Ph.D Degree). Accordingly, all universities are required to submit electronic version of theses into Shodhganga. He mentioned that the universities are also free to set-up their own ETD repositories with help of INFLIBNET Centre. Dr. Arora mentioned that the INFLIBNET Centre, under the Shodhganga initiative, will provide anti-plagiarism software to universities that are signatory to the MoU on Shodhganga to facilitate detection of plagiarism in the theses before its submission to the University.

Dr. Vinod Chachra gave a bird's eye view of initiatives taken at the international level for creating and managing ETDs. He opined that free and open access should be provided to theses and dissertations submitted to the universities across the globe. He explained different steps involved in creating and managing ETDs. He emphasized that the tools used for creating and managing ETDs should be scalable in nature, the discovery tools need to be enhanced so as to provide greater visibility to the ETDs. He also discussed the features of NDLTD Union Catalogue, phases of its development and OAI/PMH protocols used for harvesting the metadata from member universities. He elaborated on strategies used for promotion, adoption, creation, dissemination and preservation of ETDs by the NDLTD and highlighted the use and importance of VALET, an open source, customizable, web based interface that enables remote users to submit content to FEDORA based digital object repository. Dr. Chachra also observed that more concerted efforts need to be taken to evolve a strategy for long-term preservation of ETD archives. Sh. Manoj Kumar K extended a warm vote of thanks to the delegates for turning up in large number as well as dignitaries and experts for their time and support. He also expressed gratitude to the Vice Chancellor, Rector and other authorities of JNU for hosting the National Seminar.

Technical sessions were organised in six different tracks namely i) ETD: Policy Setting and enforcement; ii) Shodhganga: Central Repository of Electronic Theses and Dissertations; iii) Digitization and Digital Archiving of Theses and Dissertations; iv) ETD Systems Selection and Use; v) ETD: Case studies; and vi) Copyright and Other Related Issues concerning ETDs.

Technical Session – I : ETDs: Policy Setting and Enforcement

Chairperson:	Sh. Subhash Deshmukh, University Librarian,
	GGSIP, New Delhi
Rapporteur:	Dr. Anup Kr. Das, JNU, New Delhi

Dr. Dinesh Katre, in his presentation, highlighted the objectives of National Digital Preservation Programme that includes conducting research and development in digital preservation, develop pilot digital repositories, define digital preservation standards and provide inputs to Department of IT for laying down national policy and strategy for long term preservation. He dwelt on the importance of long-term preservation of scholarly content. He highlighted that not only final output of the theses and dissertations be archived and preserved but the software, raw data, artefacts used for arriving at the final output or findings should also be preserved and made accessible to future researchers so that duplication of efforts and dissipation of energy can be avoided. Dr. Katre elaborated on the initiatives taken at the international level for digital preservation like National Digital Infrastructure and Preservation Programme (NDIIPP, USA), NESTOR (Network of Expertise in Long Term Storage of Digital Resources, Germany; CASPER (Cultural, Artistic and Scientific knowledge for Preservation, Access and Retrieval, UK), Digital Preservation Europe (DPE), Digital Curation Centre (DCC).

Dr. ARD Prasad, DRTC, Bangalore presented a comparative analysis of metadata schema used by NDLTD, UKETD, Shodhganga of INFLIBNET and demonstrated visible variations in all the three schemas. He mentioned that there is no W3 standard available for ETDs. Dr. Prasad advocated that there should be a single standard metadata schema which should be uniformly followed by the ETDs across the country. He suggested that the metadata schema should be arnenable for crosswalk with ETDMS and UKETD-DC and should be exposed to the Web for validation. He opined that the use of standard metadata schema will definitely improve interoperability among the metadata achemas and facilitate conversion and exchange of metadata and enable cross domain metadata harvesting and metadata searches.

Technical Session – II: Shodhganga: An Opportunity for University Libraries in India

Chairperson: Dr. Jagdish Arora, Director, INFLIBNET Rapporteur: Mr. Gulam Rasul, JNU, New Delhi

Mr. Manoj Kumar K, Scientist-D (CS) explained the objectives, coverage and submission workflow of Shodhganga. He explained that Shodhganga is an open access repository of theses and dissertations submitted to Indian universities as per the UGC Notification (2009). It serves as platform for the research scholars to deposit their Ph.D theses and make it accessible to the world wide community of scholars in open access mode. The research

scholars, university representatives or research supervisors may submit theses to Shodhganga by registering themselves on Shodhganga. He explained that the universities are required to sign an MOU with INFLIBNET Centre in order to join and participate in Shodhganga programme. This MOU delineate the responsibilities of individual universities and INFLIBNET. By signing the MOU, universities are entitled to get funds for digitizing and archiving their old theses, get access to antiplagiarism software and deter plagiarism of scholarly content. Shri Manoj Kumar also described a complementary initiative called Shodhgangotri that provides for submission of electronic version of approved synopsis submitted to the universities for registering the students in Ph.D programmes. He clarified that Shodhgangotri intends to highlight the trends and directions of research being conducted across the country, thereby prevent duplication of research. Once the Ph.D degree is awarded and the full-text thesis is submitted to Shodhganga, a link to the full-text would be provided from Shodhgangotri to Shodhganga.

Technical Session – III: Digitization and Digital Archiving of Theses and Dissertations

Chairperson: Prof. Karmeshu, Dean, SCSS, JNU, New Delhi Rapporteur: Mr. Amar Singh Yadav, JNU, New Delhi

Prof. Uma Kanjilal made a detailed presentation on IGNOU's institutional repository called "E-Gyankosh", web casting facility for Gyandarshan I & II and Gyanvani. She mentioned that the institutional repository was started in 2005 to store, index, preserve, distribute, share the distance learning resources. It provides access to 95% of the self instructional material produced by the university, metadata links to 1600+ video programmes available on You Tube and has more than 1.5 million registered users. The repository gets 400 visitors daily. She mentioned that the flexi-learn programme of the university enables users to access free and open courses. The students can register and explore the courses, their content, and coverage and thus gain knowledge and skills in any course of their interest. She mentioned that the University follows OER (open Educational Resources) policy like other organizations at international level such as MIT http://web.mit.edu/education/, Open University http://openlearn.open.ac.uk/, COL,UNESCO,OLI-CMU, Rice University, etc. Prof. Kanjilal discussed the barriers to OER movement across educational institutions-issues of copyright, file formats of learning resources, standard metadata and their interoperability.

Dr.T.S. Kumbar, Librarian, IIT, Gandhinagar highlighted various ETD initiatives taken at national and international levels including

IndCat (Theses Database), Vidhyanidhi, DELNET, NASSDOC, openMed@NIC, Librarian's Digital Library, Open Index initiative, NDLTD, DART, Diva, PQDT Open, EThOS, Theses Canada, ADT, dissertations Online, NARCIS, etc. He also elaborated on ETD discovery tools like DOAR- Directory of open Access Institutional Repositories, OAIster worldCat, scientificcommons.org, BASE: Bielefeld Academic Search Engine, CASSIR: Cross archive Search Service for Institutional Repositories. Dr. Kumbar identified 48 indicators based on the survey conducted among library professionals in the country, which could be used for setting up and maintaining ETDs. He also ranked ETDs according to the rating's given by experts in the library field based on these indicators.

Dr. S. Majumdar elaborated upon the potential of ETDs and initiatives taken at national and international levels such as Vidhyanidhi, Indian Institute of Science, Indian Council of Social Sciences, NDLTD, ADT, ETD of Brazalian Universities, DART-Europe, Diva, EthOS (UK), National ETD Portal of South Africa, RCAAP, Theses Canada, WorldCAT, etc. He dwelt upon the initiatives taken by the University of Delhi in creating an ETD archive from retrospect including 13,000 M. Phil and 15,000 Ph.D theses. He mentioned that the project was undertaken by the University in two phases. In the first phase, all the theses that were submitted from inception of the university up to 1979 were digitized and in the second phase all the theses submitted from 1980 to 2003 were digitized. Dr. Majumdar expressed concern over many challenging issues related to setting up and maintenance of ETDs like quality control over content, adoption of standard metadata schema, file formats, long-term preservation strategy, standards for providing bibliographical references, etc. He expressed that the user community need to be sensitized to the practice of anti-plagiarism, fair use and intellectual property rights.

Technical Session – IV: ETD Systems Selection and Use

Chairperson:Dr. H. K Kaul, Director, DELNETRapporteur:Mr. Somesh, JNU, New Delhi

Dr ARD Prasad dwelt upon OAI-ORE (Open Archives Initiative-Object Resuse and Exchange) implementation to DSpace repositories. OAI-ORE defines standards for the description and exchange of aggregations of web resources. (http:// www.openarchives.org/ore). He mentioned that this implementation will enable INFLIBNET to collect digital objects from repositories across the country. rights, performer's rights, multimedia rights, moral rights ,which also include right of paternity and right of integrity, convergence rights. He emphasized that technology is a double edged sword as it offers new means to fix the original expression in a tangible form and at the same time supports copyright infringement. The Internet activities of caching, browsing, mirroring, scanning, downloading, uploading, file swapping, tantamount to copyright infringement. The laws and rules on 'fair use' are not very clearly defined and are a little ambiguous.

Technical Session – VI: Copyright and other related Issues concerning ETDs

Chairperson:	Dr. Usha Mujoo Munshi, Head,
	Library, IIPA, New Delhi
Rapporteur:	Mr. Tariq, JNU, New Delhi

The copyright amendment Bill 2010 (still pending before Parliament), in order to protect copyright of authors has proposed various provisions like technical protection, digital rights management. Mr. Vakul advocated that copyright bill should allow libraries, archives, museums to convert copyright protected material into digital format for preservation and future use. Furthermore, the libraries should be allowed to facilitate use of copyright material for academic and educational purposes. He also highlighted that digital copying is a civil and criminal offence according to Information Technology Act 2000. If a person downloads copies of a document without seeking permission of the owner, he is liable to pay a compensatory amount of Rs 5 Crores to the owner and may be sentenced to imprisonment for 3 years. Mr. Sharma reiterated that libraries and guides/supervisors should use anti-plagiarism software to prevent substantial copying and other fraudulent practices; higher educational institutions must develop a code of conduct for students, researchers and guides. Mr. Sharma also mentioned that substantial copying from material which are out of copyright should also be seen as copyright infringement. The user community should be sensitized towards the provisions of the Copyright Act and Information Technology act.

Dr. R. Samyuktha, University Librarian, Pondicherry University presented a case study of institutional repository for archiving theses and dissertations that was set up in Pondicherry University. She gave an account of automation and digital library activities of University Library. She mentioned that the institutional repository was set up in 2010 using DSpace. The digitization of the theses was done in-house as well as outsourced. The library has already digitized and uploaded 574 theses which are in English, French, Sanskrit, Hindi and Tamil. She mentioned that these theses were sent for Shodhganga @INFLIBNET. The University of Pondicherry has already signed an MOU with INFLIBNET Centre. The University also subscribes to 'TURNITIN' which is an anti-plagiarism software. The research scholars are supposed to subject their theses to TURNITIN software before submitting them for award of degree. The University provides No-due certificate based on TURNITIN Document ID.

Panel Discussion: Preservation and Access of Theses and Dissertations: Issues and Challenges

On the concluding day, a panel discussion was held with various experts expressing their suggestions to embark up on the ETD projects in universities, issues and challenges for preservation and access to ETDs and strategy for enrolling more universities and other institutions into Shodhganga project. Discussions were also held regarding incentives to universities and research scholars for submission of their theses in the Shodhganga. The panel was chaired by Dr. Jagdish Arora and panellists were Dr. R K Chadha, Joint Scretary, Lok Sabha, Dr. Samyuktha Ravi, University Librarian, Pondicherry University, Dr. Nutan Johry, Dy. Director, NASSDOC New Delhi, Sh. N V Sathyanarayana, M/s. Informatics India Pvt, Dr. S K Arora, University Librarian, IGNOU, New Delhi Ltd, and Dr. Debal C Kar, University Librarian, Dr. BRA University, Delhi.

Dr. R Samyuktha made a presentation on issues and challenges of ETD Initiatives at University of Pondicherry. Dr. Nutan Johry made an elaborated on the role of ICSSR in preservation and access to theses and dissertations. Mr. N V Sathyanarayan, Informatics India Pvt. Ltd expressed his views on marketing of Indian theses and dissertations. Dr. S K Arora, University Librarian, IGNOU, New Delhi made a presentation on preservation and access to theses and dissertations at IGNOU. Dr. Debal C Kar, University Librarian, DR BRA University, Delhi presented initiatives taken at the BRA University regarding electronic submission of theses and dissertations.

Valedictory Session and Recommendations

Valedictory Session of the National Seminar on was held on 23rd March 2012 at 3.30 p.m. Dr. Manorama Tripathi, Rapporteur General of the Seminar presented the report on various sessions held during the Seminar. In her report, Dr. Tripathi presented a gist of lecture delivered and discussions held in various sessions. In his concluding remarks, Dr. Jagdish Arora, Director, INFLIBNET Centre informed the participants about various decisions taken in the meeting of the National Committee on ETD for Shodhganga. He informed that the Committee discussed about the grant to be given for digitization of theses and dissertations as well as for setting up of ETD laboratories in universities signatory to the Shodhganga initiative. The Valedictory Address was delivered by Dr. R.K. Chadha, Joint Secretary, Lok Sabha, New Delhi. Dr. Chadha, in his address, congratulated the JNU Library and INFLIBNET Centre for organizing the National Seminar of ETD. He also suggested that such seminars should be organized in all parts of the country to generate greater awareness regarding open access to electronic theses and dissertations. Dr. Ramesh C. Gaur, University Librarian, JNU extended a warm vote of thanks to his staff, authorities and INFLIBNET Centre for help and support in organization of this Seminar. He informed the participants that all the presentations of the Seminar will be made available from the Web sites of JNU Library and INFLIBNET.

Major recommendations made during the seminar were as follows:

- Open access of electronic theses and dissertations will benefit both university and researchers. As such, universities should be encouraged to set-up their own ETD repositories to preserve as well as expose their intellectual properties to the world-wide community.
- 2. The role of INFLIBNET in ETD initiative, especially Shodhganga, was well appreciated. It was proposed that all university libraries in India should join Shodhganga as soon as possible.
- Availability of theses and dissertations in electronic format will be a deterrent to plagiarism and will improve quality of research work in India.
- 4. The INFLIBNET Centre should take-up initiatives to develop a catalogue of all theses and dissertations in India in lines with the NDLTD union catalogue.

- 5. INFLIBNET Centre should collaborate with international programmes such as National Digital Library for Electronic Theses and Dissertations (NDLTD) and should take initiatives to organised international conference on ETD with their association so as to promote sharing of expertise for mutual benefits.
- 6. Training programme on digitization, creation of metadata, setting-up and maintenance of digital repository of theses and dissertations should be organized for library professionals working and user awareness program on ETD for academic administrators as well as for research scholars should be organised in various geographical regions of the country.
- 7. Embargo period, in case of theses, should be restricted to minimum, not more than six months in any case.
- 8. The UGC should provide special grant during XII Five Year Plan for digitization and digital archiving of theses and dissertations.
- Research scholars should get incentives for online submission of his / her theses.
- 10. Digital watermarking and other restrictive technologies should be used to restrict direct copying of theses.
- 11. The UGC may formulate National IPR policy for ETDs.
- 12.National seminar should be organised at least once in two years by inviting experts working on ETD projects.
- 13. The INFLIBNET Centre is requested to contact other public access ETDs in India such as ETDs maintained by CISR, ICSSR, Vidhyanidhi etc. for association and hosting of content in Shodhganga after signing an MoU so that single platform can help researchers to search/browse and use content easily.

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E-PG Pathshala: INFLIBNET Centre to Coordinate the Activity of Content Creation in 77 Subjects at PG Level

The UGC has assigned the task of coordinating the activity of content creation in 77 subject areas at PG level to the INFLIBNET Centre. The Centre is responsible for technical as well as administrative coordination of this activity. Major tasks involved in the process are as follows:

- i) Project set-up and its execution;
- ii) Selection of subject coordinators;
- iii) Workflow management from content development to hosting;
- iv) Set-up a platform for hosting e-content into SCORMcomplaint Learning Management System; and
- v) Multimedia enrichment of content.

The Centre has configured A Tutor, an open source Learning Management System to host the e-content created in the process and developing E-PG Pathshala Management System to manage the administrative flow of the work. Online interface has already been developed that was used for inviting "Expression of Interest" from subject coordinators.

The Director of INFLIBNET Centre is designated as National Coordinator (Technical) for this activity. Prof. H P Dikshit, former Vice Chancellor, IGNOU is designated as National Programme Coordinator for this initiative.

Knowledge Consortium of Gujarat (KCG) Signs MoU with INFLIBNET Centre

Knowledge Consortium of Gujarat (KCG) signs MoU with INFLIBNET Centre for N-LIST

The Knowledge Consortium of Gujarat (KCG) has signed MoU with INFLIBNET Centre for extending access to e-resources under the N-LIST Programme to 836 eligible colleges in Gujarat. The KCG has paid a lump sum amount to the INFLIBNET Centre as annual membership fee for these colleges. These colleges are being enrolled under the NLIST programme, login ID and Password are being issued to individual uses (faculty, students and staff) from here colleges enabling them to access e-resources made accessible through NLIST programme.

Knowledge Consortium of Gujarat (KCG) signs MoU with INFLIBNET Centre for OJAS

The KCG has signed an MoU with INFLIBNET Centre for hosting its journal called KCG-Humanities at the OJAS platform. The KCG plans to bring out a series of journals in various disciplines. All these journals would be hosted on the OJAS platform as they are released.

OJAS Now Hosts 13 Journals

The Centre launched OJAS (Open Journal Access System) initiative in the month of January 2009, using the open source software called Open Journal System (OJS). The software is installed at one of the servers of the Centre, facilitating hosting of electronic version of journals into open access mode with all processes of submission, peer-reviewing, editing, layout designing and publishing built into it. The initiative encourages, the universities and institutions that are publishing journals in print format to use the platform for hosting electronic version of their journals free-of-cost on server at the INFLIBNET Centre. The initiative also encourages faculty in universities to start their own open access journals on this platform. The OJAS hosts the following 13 journals at present:

 Journal of Literature, Culture and Media Studies - Published by Prof. N D R Chandra, Head, Department of English, Nagaland Central University;

- Assam University Journal of Science & Technology on "Biological and Environmental Sciences" and "Physical Sciences and Technology" - Published by Assam University Press, Silchar;
- ICSSR Journal of Indian Psychological Abstracts and Reviews
 Published by ICSSR, New Delhi;
- ICSSR Journal of Abstracts and Reviews Economics Published by ICSSR, New Delhi;
- 5. ICSSR Journal of Abstracts and Reviews Geography Published by ICSSR, New Delhi; and
- ICSSR Journal of Abstracts and Reviews Political Science – Published by ICSSR, New Delhi.
- ICSSR Journal of Abstracts and Reviews Sociology and Social Anthropology, – Published by ICSSR, New Delhi
- Management Convergence Published by Department of Management, Mizoram University, Aizwal, Mizoram
- International Journal of Farm Sciences Published by SADHNA, Dr. Y S Parmar University of Horticulture & Forestry, Nauni, Solan
- Karnataka Journal of Agriculture Sciences Published by Karnataka Agriculture University, Dharwad, Karnataka
- Management Insight Published by School of Management Sciences, Varanasi
- Purushashtra A Journal of Management Ethics and Spirituality – Published by School of Management Sciences, Varanasi
- 13. Journal of Knowledge Consortium of Gujarat Humanities
 Published by Knowledge Consortium of Gujarat, Gandhinagar IN

Bulk Order for SOUL Software from Commissioner of Higher Education, Govt. of Gujarat for 9 Government Colleges in Gujarat

The Commissioner of Higher Education, Government of Gujarat has procured multiple copies of SOUL 2.0 software to automate 80 grant-in aid colleges and 54 Government colleges across the state. The Centre has already provided SOUL 2.0 to 125 Government colleges, orders were placed for 9 Government colleges recently. The Centre organized five days Special Training Programme on SOUL 2.0 Installation and Operations for the staff of these colleges at INFLIBNET Centre, Ahmedabad.

IRTPLA Training Programme

Manonmaniam Sundaranar University, March 26-30, 2012

The Centre organised Regional Training Program on Library Automation (IRTPLA) in collaboration with Manonmaniam Sundaranar University from 26th to 30th March 2012 at the Senate Hall, Manonmaniam Sundaranar University. 36 participants consisting of library and information science professionals from different colleges participated in the programme. Dr. P. Balasubranian, Deputy Librarian, Manonmaniam Sundaranar University welcomed the participants and guests. Dr. S. Manickam, Registrar, Manonmaniam Sundaranar University delivered the Inaugural Address. Shri P.Kannan, Scientist B (LS), INFLIBNET Centre briefed about the training programme. Dr. K.Kannan, Assistant Librarian, Manonmaniam Sundaranar University expressed a warm vote of thanks to the participants and guests.

Shri P. Kannan represented the INFLIBNET Centre as a Resource person in the training programme. Shri Kannan briefly explained the different activities and services of the INFLIBNET Centre, especially about UGC-Infonet Digital Library Consortium, N-LIST, Shodhganga, Shodhgangotri and other programmes of the centre. Shri T Venkata Ravi Kiran and Shri M D Latheef made presentations on installation and use of different modules of the SOUL software. The presentations made by resource persons were as follows:

Name of the Expert	Topic of Presentation
Dr. K Kannan, Assistant Librarian, Manonmaniam Sundarnar University	Open Access Software and Resources
Dr. R. S. Rajesh, Associate Professor, Department of Computer Science and Engineering, Manonmaniam Sundaranar University	Recent Trends in Wired and Wireless Network
Dr. M. Surulinathi, Assistant Professor, Department of Library and Information Science, Bharathidasan University, Trichy	Digital Library its Development & Resources
Dr. P. Balasubramanian, Deputy Librarian, Manonmaniam Sundarnar University	Computer Network and Internet
Dr. A. Thirumagal, Librarian of Manonmaniam Sundaranar University	BibExcel: Tools for Using Bibliographic References of Journal Articles

Name of the Experts with their topic of presentations

At the end of the programme, the feedbacks filled in by the participants were collected and certificates of participation were

distributed to the participants.

Training Programme on SOUL 2.0 at the INFLIBNET Centre

100th SOUL 2.0 Training Programme, INFLIBNET Centre, Ahmedabad, 30th January – 3rd February, 2012

The INFLIENET Centre, Ahmedabad organized five days Training Programme on SOUL 2.0 Installation and Operations for its users from 30th January – 3rd February, 2012, at INFLIENET Centre, Ahmedabad, Gujarat. The programme was inaugurated by Dr. Parimal Trivedi, Vice Chancellor, Gujarat University, Ahmedabad. Prof Trivedi, in his inaugural address, elaborated on the development of the INFLIBNET Centre and its role in academics. He touched upon the massive technological changes that the Centre has undergone and its positive impact on the higher education community. Further, he emphasized that the libraries should play an active role in the automation process and help uses to get required information expeditiously.



Dr. Parimal Trivedi, Vice Chancellor, Gujatat University Lighting the Traditional Lamp during Inauguration of 100th Soul 2.0 Training Programms along with Dr. Jagdish Arora, Director, Shri Manoj Kumar K, Scientist D(CS), Shri Yatrik Patel, Scientist D(CS) and Shri H G Hosamani, Scientist C(LS), INFLIBNET Centre

Dr. Jagduh Arora, Director, INFLIBNET Centre presented an overview of INFLIBNET Centre its activities, services and highlighted its recent initiatives. Shri Manoj Kumar K, Scientist D (CS), welcomed the guests and participants to the inaugural session. Sh Yatrik Patel Scientist-D (CS) and technical coordinator

highlighted the couple content of SOUL 2.0 training programme. Sh H G Hosamani Scientist - C (LS) and coordinator of the training programme extended a warm the vote thanks to all invitees, participants, dignitaries, and authorities of Gujarat University. Dr. Parimal Trivedi, launched the "new website of Soul 2.0 (http://www.inflibnet.ac.in/soul) and mobile website (http://www.inflibnet.ac.in/mobile.html)" developed by INFLIBNET Centre during the inaugurate programme.

The programme was fully focused on operational aspects of different modules of SOUL 2.0 software and its installation, backup/restore etc. Lectures were also arranged on INFLIBNET

activities and services with special reference to use of e-resource under N-LIST project. Afternoon sessions held in the Computer laboratory for imparting "hands-on" training to the participants.

140 library professionals were invited for the inaugural session including 6 regional SOUL Coordinators and 32 participants from different parts of the country to attend the five days SOUL 2.0 training programme.



Participants of 100th Training Programme on SOUL 2.0 with the Director and Technical Staff of the INFLIBNET Centre

101st SOUL 2.0 Training Programme, INFLIBNET Centre, Ahmedabad, 12th – 16th February, 2012.

The INFLIBNET Centre, Ahmedabad organized five days Special Training Programme on SOUL 2.0 Installation and Operations for SOUL 2.0 users from across the country from 12th – 16th February, 2012, at INFLIBNET Centre, Ahmedabad, Gujarat. The programme was inaugurated by Sh. Manoj Kumar K, Scientist D (CS) Ahmedabad. 28 library science and computer science professionals from across the country participated in the programme. Sri H G Hosamani, Scientist C (LS), INFLIBNET Centre Co-ordinated the training programme.



Participants of 101st Training Programme on SOUL 2.0 with the Director and Technical Staff of the INFLIBNET Centre

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North Maharashtra University, Jalgaon, January 19, 2012

The Central Library of North Maharashtra University (NMU), Jalgaon in collaboration with the INFLIBNET Centre, organized one-day User Awareness Programme on Access to E-resources under N-LIST on 19th January 2012 at Central Library Hall, NMU Campus. A total of 95 participants consisting of teachers and librarians of colleges affiliated to NMU attended the programme. Dr. T. R. Borse, University Librarian, NMU presented an outline of the programme, activities and services of the INFLIBNET Centre to the participants and guest. He emphasized on the need for holding information literacy programmes for the optimum usage of e-resources. The programme was inaugurated by Prof. D. G. Hundiwale, Director, Board of Colleges and University Development, NMU. Dr Hundiwale, in his presidential address, emphasized on the need for awareness among teaching communities regarding the use of electronic resources and mentioned the challenges pertaining to Internet stressing. He spoke about changing rules of librarians for to achieve effective library services to their library users. Shri H. G. Hoshamani, Scientist C (LS), INFLIBNET Centre made a presentation on INFLIBNET activities, services and its functions. He made a detailed presentation on N-LIST programme including available e-resources, process of joining the programme, methods of access, and cost benefit analysis. Dr. Anil N Chikate, Deputy Librarian, NMU, Jalgaon coordinated the programme. Ms. Neelima Mahske, Information Scientist proposed a warm vote of thanks to the participants, guests, authorities of the University and staff of the Central Library.

Mahatma Gandhi University, Kottayam, January 20, 2012

The Mahatma Gandhi University, in collabaration with the INFLIBNET Centre, organised one-day User Awareness Programme on N-LIST at the Auditorium, School of Environmental Studies, Mahatma Gandhi University on 20th January 2012. 72 participants consisting of principals, teachers and librarians from the affiliated colleges of Mahatma Gandhi University participated in the programme, Mrs. Laila T. Abraham, Deputy Librarian-in-charge, Mahatma Gandhi University and

Co-ordinator of the programme welcomed the participants and quest & Dr. Rajan Varughese, Pro-Vice Chancellor of the University presided over the function. Dr. Varughese, opined that it was almost impossible task to obtain comprehensive information on a particular topic about a decade ago because of the lack of availability of e-resources, the situation is now reversed because of excessive availability of qualitative eresources under the N-LIST project unaffordable for an individual university or college. Prof. (Dr.) Rajan Gurukkal, Vice Chancellor of the University inaugurated the programme. Prof. Gurukkal, in his speech, focused on the effort of INFLIBNET Centre in introducing N-LIST Project for the benefit of colleges and other educational institutions. He expressed that easy and timely access of information is like a catalyst in growth of knowledge economy. Shri Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre was the resource person for the programme. Shri Rai made presentation on the features of the N-LIST and e-resources available to the colleges under the project including how to join the project, how to access e-resources, etc. Shri K. K. Murali, Convenor of the programme delivered a warm vote of thanks to the participants and guests. The Certificates of participation were distributed at the end of programme.

Sree Narayana Guru College (SNGC), Coimbatore, Tamil Nadu, January 21, 2012

The Sree Narayana Guru College (SNGC), Coimbatore in collaboration with the INFLIBNET Centre organized one-day User Awareness Programme on Access to E-resources under the N-LIST on 21st January 2012. Mr.E.K.Girisan, Sr. Lecturer, Dept of Comp Science, Sree Narayana Guru College, Coimbatore welcomed the participants and guests to the programme. The programme was inaugurated by Dr.M.Illangovan, Principal i/c, Sree Narayana Guru College, Coimbatore. Shri P. Kannan represented the INFLIBNET Centre as a Resource person in the training programme. Shri Kannan briefly explained the NLIST Initiatives for the benefit of Academic and research community and enlightened the participants on concept of e-resources and availability of various resources under NLIST programme. Certificates of participation were distributed at the end of the programme. The Programme was concluded with a warm vote of thanks to the participants and guests. 145 participants from various colleges and universities attended the programme.

St. Joseph College of Education for Women, Guntur, Andhra Pradesh, January 28, 2012

The Department of Library and Information Science, St. Joseph's College of Education for Women, Guntur, Andhra Pradesh in collaboration with the INFLIBNET Centre and the Department of Library and Information Science, Nagarjuna University, Guntur organised oneday User Awareness Programme on N-LIST on 28th January, 2012. Dr. B.A. Rani, Librarian, St. Joseph's College of Education for Women and coordinator of the programme welcomed the participants and guests to the programme. 41 participants consisting of faculty, librarians and research scholars of the university and colleges affiliated to the University participated in the programme. The programme was inaugurated by Prof. B.Ramesh Babu, DLIS, Madras University, Chennai, Prof. Kodela Venkata Rao, Nagarjuna University, Guntur and Dr. Sr. Ignatius Loyola, Correspondent, St. Joseph's College of Education for Women, Guntur by lighting the traditional lamp. Prof. Kodela Venkata Rao presided over the programme. Prof. Rao, in his presidential address, emphasized on the need of the N-LIST programme.

He suggested that all the librarians should get benefit of access to e-resources available under N-LIST programme. Dr. Sr. Ignatius Loyola conveyed greetings to the dignitaries on the dais and the participants. Prof. B. Ramesh Babu in his key note address presented an overview of the current activities of the INFLIBNET Centre. He focused on the objectives and importance of N-LIST Project. Shri Kiran Kumar, SOUL Technical Assistant, SOUL Service Centre, Southern Region acted as a resource person and made presentation on access to e-resources through NLIST Programme. Participants were distributed certificates of participation in the programme. The Programme was concluded with a warm vote of thanks to the participants and guests.

41 participants from various colleges and universities attended the workshop. They were very much satisfied and inspired to join the N-LIST programe. The librarians of the engineering colleges were of the opinion that it would be better if the N-List programme could be extended to engineering colleges also.

Bhagat Phool Singh Mahila Vishwavidyalaya, Sonipat, Haryana, January 31, 2012

The User Awareness Programme on Access to E-Resources, jointly organized by the INFLIBNET Centre and Bhagat Phool Singh Mahila Vishwavidyalaya, Khanpur Kalan, Sonipat, Haryana was held on 31st Jan. 2012.



Dr. (Mrs.) Pankaj Mittal, Hon'ble Vice Chancellor Lighting the Traditional Lamp during Inaugurate the Programme along with Dr. (Mrs.) Balbir Kaur, Hon'ble Pro-Vice Chancellor Mr. Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre and Dr. O.P. Hooda, University Librarian

Dr. O.P. Hooda University Librarian and Coordinator welcomed the dignitaries on the dias as well as guests and the participants. The User Awareness Programme was formally inaugurated by Dr. (Mrs.) Pankaj Mittal, Hon'ble Vice Chancellor, Dr. (Mrs.) Balbir Kaur, Hon'ble Pro-Vice Chancellor, Ms. Shimla, Registrar, Shri Ashok Kumar Rai, Scientist D(CS), INFLIBNET Centre and Dr. 0.P. Hooda lighted the traditional lamp. Mr. Ashok Kumar Rai in his inaugural address mentioned the role played by the INFLIBNET Centre in providing a channel to the academicians for exchange of information from sources within the country and abroad. Dr. (Mrs.) Pankaj Mittal, Hon'ble Vice Chancellor of Bhagat Phool Singh Mahila Vishwavidyalaya, addressed the participants regarding facilities of e-resources provided by the INFLIBNET. More than 200 participants consisting of faculty members, research scholars, students, library professionals of the University, libraries from neighboring academic and research libraries attended this programme. Mrs. Shimla, Registrar of the University gave the vote of thanks to organizers, dignitaries, faculty members and participants. The participants gave their feedback that it was revealed that the programme was very impressive and useful to the users and that the participants desired that such programmes should be organized more often in the future.

Nagarjuna Government College, Nalgonda, Andhra Pradesh, February 3, 2012

The DLIS, Nagarjuna Government College, Nalgonda in collaboration with the INFLIBNET Centre and Mahatma Gandhi University, Nalgonda organized one-day User Awareness Programme on Access to E-resources under N-LIST on 3rd February 2012.

The Programme Coordinator, Shri J Laxma Reddy, Librarian, Nagarjuna Government College welcomed the participants and guests to the programme. The programme was inaugurated by Prof. Katta Narsimha Reddy, Vice Chancellor, Mahatma Gandhi University, Nalgonda. Prof. K Narsimha Reddy, in his inaugural address, emphasized the need to make use of e-resources at college to strengthen the research activity and to improve the quality of education. Prof. S. Sudershan Rao, DLIS, Osmania University and Shri P. Diwakar Head, Library CCMB Hyderabad enlightened the participants on concept of e-resources and availability of various resources under NLIST programme. Prof. K. Pochanna, Registrar, Mahatma Gandhi University, Nalgonda, in the valedictory address, stated that all affiliated colleges have to opt for N-LIST programmes in order to improve the library services in their colleges and to support the students and researcher at college level. Prof. Pochanna distributed the certificate of participation to the participants. 50 participants consisting of Principals and librarian working in Government, aided, affiliated colleges under Mahatma Gandhi University.



Prof. K Narsimha Reddy during inaugurate programme of the User Awareness on Access to E-resources under N-LIST Programme. Shri, J Laxma Reddy, Librarian, N G College, Dr K Bapujee, Principal, N G College, Nalgonda, Prof. S. Sudershan Rao, DLIS, Osmania University, Hyderabad and Shri P. Diwakar, Head Library, CCMB, Hyderabad

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Universities Who Signed MOU with INFLIBNET Centre for Shodhganga

Shodhganga is a repository of Indian Electronic Theses and Dissertations that is developed and managed by the INFLIBNET Centre. As on 31 March 2012, 55 universities have signed MOU with the INFLIBNET Centre and 54 universities have submitted more than 3250 theses in to the repository. 9 universities who signed MOU with the INFLIBNET Centre during the period of the report are as follows:

S. No	Name of the University / Institution	State	Date
1	Hindustan University, Chennai	Tamil Nadu	11th January 2012
2	Kumaun University Nainital	Uttarakhand	24th January 2012
3	Maharshi Dayanand University, Rohtak	Haryana	21st February 2012
4	Sikkim University, Gangtok	Sikkim	1st March 2012
5	Sambalpur University, Sambalpur	Orissa	6th March 2012
6	Dayalbag Educational Institute, Agra	Uttar Pradesh	16th March 2012
7	Sri Ramachandra University, Porur	Chennai	27th March 2012
8	Mohanlal Sukhadia University, Udaipur	Rajasthan	10th April 2012
9	Narsee Monjee Institute of Management Studies, Mumbai	Maharashtra	21st April 2012

Republic Day Celebration at INFLIBENT Centre

The INFLIBNET Centre celebrated 63rd Republic Day on Thursday, 26th January 2012. The National Flag was hoisted by Dr. Jagdish Arora, Director, INFLIBNET Centre. Dr Arora addressed the staff members and their families regarding the activities of the Centre. A number of games were organized for staff and their children during the event and prizes were distributed to the winners of the games.



Dr. Jagdish Arora, Director addressed the staff members and their family. Shri Harish Chandra, Administrative Officer, Shri Manoj Kumar K and Shri Ashok Kumar Rai, Scienstist D (CS) of the Centre were also present.

Feature Article: E-Learning Content Development and Hosting

1. Introduction

The rapid growth in the web technology and its ever increasing usage has given unprecedented opportunities to provide information to the students not only within the four-walls of their class rooms but also in the comforts of their home all over the globe. The changes, mainly driven by the new technological innovations and the new learning environment, has presented a scenario where student have access to a vast array of information in many fields from experts all over the world.

The online learning has rejuvenated the basic concept of education and its mode of delivery. The potentials for online delivery of education has increased multi-fold with increased in number of Internet users. The Internet and web technology, as a new media of information delivery, facilitates real-time interaction between students and instructors that traditional written correspondence courses or video cassettes-based courses or other methods of remote instructions cannot offer.

2. Definition of E-Content and its Components

With rapid growth of information and knowledge, e-content is the most preferred solution for learning effectively and efficiently. E-content can be defined as digital learning material that is specifically prepared for imparting education online. e-Teaching or blended-learning is combination of conventional teaching and eLearning which uses digital media. Units of e-Content can be categorized as:

- Asset: The smallest element of content is called an asset, i.e. asset is a single building block of e-content such as an graphics, text, animation, etc
- Learning Object: Several assets assembled together to explain a concept form a learning object. The assets inside an object have to be structured pedagogically.
- iii) Learning Module: A learning module consists of learning objects that are combined together

pedagogically to explain a topic. It is strategically structured, including motivational aspects, presentation of content, quizzes, and self-assessment, etc.

- iv) Learning Unit: A learning unit corresponds to an entire teaching unit. It combines e- modules within a pedagogical framework imitating environment of a traditional classroom.
- Course: A course consists of structured combination of learning units.
- vi) Scenario: Documented guide including text, audiovisuals and instructions for a unit of course is called a scenario. Using a scenario, other teachers can very easily reconstruct and use the material that come with it.

3. Component of E-Learning

The content prepared for e-learning aims at delivering a course in an interesting manner with help of all possible media support like text, animation, simulation, graphics, etc. As such, the task of designing e-learning material is highly specialized and requires domain knowledge, expertise in different types of software tools that can be used to enhance the content with multimedia and expertise in instructional technology. As such, the process of content creation requires marriage of two types of expertise, i.e. domain knowledge and web / instructional designers or multimedia script writer. A combined team of these personnel can make the content livelier and also facilitate representation of the content in logical sequence. The logical sequencing and delivery of content is as important as the content itself since the objective is to assemble content that is easy to comprehend and easier to remember.

The e-content must offer tangible value-addition and skillbuilding to the participant. The content should not be a copy of a books or lecture notes delivered in a class. If the e-DDD does not offer immediate benefits in terms on concept building, indepth understanding and interaction with the students, the content need restructuring and repurposing. The National Mission on Education through ICT (NME-ICT), that funds projects on content development across several disciplines, prescribes four quadrant approach for effective and efficient development of e-content. These four quadrants are:

- i) First Quadrant: First quadrant defines the structure of course along with textual content. It comprises of basic description of a module, prerequisites (in terms of knowledge background of a user before taking-up a module), introduction, objectives, keywords, summary, textual content (details of textual content on the topic, subtopics with examples and applications from day-today life, illustrations and chunk text).
- Second Quadrant: The second quadrant comprises of multimedia enrichment of content that may include audio or video clips, animation, simulations, virtual labs, etc.
- iii) Third Quadrant: The third quadrant provides for links to external resources available on the Web as well as supporting material. For example: Did You Know?, Points to Ponder, Glossary, FAQs, link to Wikipedia, other websites, blogs, discussion forum, etc.
- iv) Fourth Quadrant: Fourth quadrant includes the self assessment material. Assessment and evaluation questions may be in different format like multiple choice questions, true & false statements, sequencing, match the columns, problems, quizzes, etc.

4. Stakeholder / Entities in Content Creation

The following two entities are involved in the process of content creation:

i) Content Writer (CW) / Domain Expert (DE): Content writer is the domain expert who plays a central role in the process of content development. Content writer delivers on the subject of his / her expertise. He / she possess domain knowledge of the subject and is responsible for packaging the content in an interesting way imbibing frills and frolics of web technology. While preparing the content, the content writer should keep in mind the learner's profile, expectations from the course and the time available for e-learning.

- ii) Technical Experts: The following two types of technical expertise is required in the process of e-content development:
 - Multimedia Experts: Multimedia experts, has rich experience of graphic design (images, animation and simulation) as well as in converting the storyboard provided by the content writers into real multimedia content in different formats such as animation, simulation, etc.
 - Web experts: Web expert install / develop and maintain the Learning Management Software (LMS) where all the content are uploaded following a pre-defined pedagogical framework.

5. E-Learning Models

The three types of e-learning models are as follows:

- i) Virtual Classroom Model: The virtual class room uses video conferencing facilities wherein the mentor and student interact over a web based server through education software. The virtual classroom requires installation of basic infrastructure like video conferencing facilities, computer with high speed processor, power back up and high speed reliable Internet connections at both the ends. This feature of e-learning takes away the load of distance and brings all the students and teacher at one platform and creates classroom like environment. Virtual classroom model offer synchronous communication.
- ii) Online E-Learning Model: This model of e-learning is significantly different from the earlier one and is dependent on courseware delivered over the Internet to learners at different locations where the interaction between the learner and the experiences of their learning occur via network systems. Online e-learning model essentially offers asynchronous communication.

iii) Fast E-learning Model: This model is further development of the above two models wherein combinations of the above two models are used to impart training to the end-users. This model offers a blend of asynchronous and synchronous communication.

6. Platform, Standards & Digital Preservation

Educational materials in audio-visual formats do not ensure student participation. As such, it is important to incorporate interactivity to ensure effective learning. Combination of text, graphics, animation, video and interactive quizzes is a better approach. The most appropriate content format may be determined based on the student learning outcomes required, i.e. simulations, debates, discussions, etc.

Moreover, all content must be fully SCORM (Sharable Content Object Reference Model) compliant to allow interoperability and consistency. SCORM is a collection of standards and specifications for web-based e-learning that is commonly supported by most Learning Management System (LMS). Learning content should be modular to encourage mix-andmatching of existing content and should be designed using the latest standardised technologies.

6.1. LMS Platform

Content creation and its delivery can best be done using a SCORM compliant Course Management System (CMS), also known as a Learning Management System (LMS) or a Virtual Learning Environment (VLE) accompanied with a back-end database to facilitate effective content development and deployment. A user can draw maximum advantage from the digital content if they are available through an LMS with facilities to search and browse all the content hosted on an LMS with provision to track and report on learning progress. The LMS should facilitate deployment of centralised assessments as well as flexibility to faculty to host their own assessments and quizzes for students. The scores, results and other relevant data may be shared with universities and central educational authorities, as and if required. The LMS should have the following features and functionalities built into it:

- > Support for text, audio, video, animation and graphics.
- Suitable metadata schema and taxonomy with facilities to tag content type, language, level of content, etc.
- Support multiple languages and translation services from one language to another.
- Support role-based log-ins for content creators, moderators, users, etc.
- Support qualitative assessment of content through rating mechanism by the users and reviewing mechanism by experts.
- Support mechanism for moderation of uploaded content.
- Support innovative financial models to reward content creators.

6.2. Metadata Schema for Digital Content

The content in an LMS typically consists of two components, i.e. content in digital format and its metadata. The metadata provides bibliographic or index information for the digital content. While digital content are the primary documents that users wish to access, it is metadata that facilitate their identification and location using variety of search mechanism. The metadata should not only be assigned to search subject coverage of digital content, but also to document its technical details and structural organization so as to facilitate navigation within a digital document and to ensure its longevity.

6.3. Digital Preservation

Although, the digital technology offers several advantages over their print content, it along with other associated Internet and Web technologies are in continuous flux of change. New standards and protocols are being defined at regular intervals for file formats, compression techniques, hardware components, network interfaces, storage media and devices, etc. The digital content faces the constant threat of "techno-obsolescence" and transitory standards. There is a constant threat of backward compatibility for products including software, hardware and associated standards and protocols that were used in past. Maintaining access to digital content over a long period of time is much more challenging that their paper counterpart. A number of long-term and short-term digital preservation strategies, such as copying / backup, refreshing, replication, technology preservation, migration, emulation, encapsulation, software reengineering, universal virtual computer, etc may be deployed. However, deployment of a single solution would not be appropriate for all data types, situations or institutions, As such, a set of digital preservation strategies can be applied depending on the life span of digital content. It is strongly recommended that essential elements of digital preservation should be inbuilt into the projects on digital content creation to ensure longterm availability of digital content.

7. Recent initiatives on Content Creation under the NME-ICT and NPTEL

The Ministry of Human Resource Development (MHRD), under its National Mission on Education through ICT, has sanctioned a number of projects on content creation to various higher education institutions in the country. Under National Programme on Technology Enhanced Learning (NPTEL), course contents for engineering and science disciplines are developed for free online access. In phase I of NPTEL project, 135 video courses and 125 web courses were developed and are accessible freely through NPTEL website at http://nptel.iitm.ac.in. Content creation, using four quadrant approach, for more than 996 courses in over 20 science and engineering disciplines, covering both undergraduate and postgraduate courses is underway. More than 20,000 lectures will be recorded in the engineering and technology disciplines during phase II of NPTEL, making approximately 500 video based courses. The MHRD, under the NME-ICT, has also sanctioned funds to the Consortium for Education Communication (CEC) for developing e-content in 19 subject areas at undergraduate level. Moreover, funds have been made available to the UGC for developing e-content in 77 subject areas at postgraduate level using expertise available in universities and colleges.

8. References:

http://en.wikipedia.org/wiki/E-learning

http://www.elkindia.com/e-learning_content_development.htm National Mission on Education through Information and

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http://www.illldu.edu.in/

Onsite/In-house Training Programme on SOUL 2.0

Banaras Hindu University, Varanasi, January 23 – 27, 2012

The Banaras Hindu University, Varanasi, organized five days Inhouse training programme on SOUL 2.0 at Banaras Hindu University Library, Varanasi, from 23rd to 27th January, 2012. As BHU is one of the biggest library system in the country having more than 32 departmental libraries. Recently, Central library has adopted SOUL 2.0 software after evaluation of its advanced features and stability in the profession help them to switch over from other commercial software to SOUL 2.0 software for smooth functioning of the library activities. In lieu of this Centre has supported them to convert data from other commercial software to SOUL software and also extended support for customization of the software as per their requirements. More than 100 staff members were participated in the programme. Dr. A K Srivastav, Librarian, was coordinator of the programme. Sh. H G Hosamani, Scientist C (LS) and Sh. Divyakant Vaghela, Scientist B (CS), acted as resource persons from INFLIBNET Centre, Ahmedabad.

Visitors

During the quarter under report, the following dignitaries visited the INFLIBNET Centre:

Prof. H. P. Dikshit, Chairman, Institute of Environmental Studies, Environmental Planning and Coordination Organization, Government of Madhya Pradesh, Bhopal

Prof. A. K. Bakhshi, Vice-Chancellor, Uttar Pradesh Rajarshi Tandon, Open University, Shantipuram (Sector-F), Phaphamau, Allahabad

- Prof. R K Kale, Vice Chancellor, Central University of Gujarat, Gandhinagar
- Col. S.K. Sharma, Special Officer, Central University of Gujarat, Gandhinagar
- Dr. Muttayya Koganuramath, Librarian, Tata Institute of Social Sciences, Mumbai
- Dr. R. K. Chadha, Joint Secretary, Lok sabha, New Delhi
- Dr. T. S. Kumbar, Librarian, IIT Gandhinagar
- Dr. H. Anilkumar, Librarian, Indian Institute of Management, Ahmedabad
- Prof. E. V. Ramakrishnan, Dean, SLI & es, University of Gujarat, Gandhinagar 🛛 🚺

Dr. Jagdish Arora, Director, INFLIBNET Centre, Ahmedabad

Dr. Jagdish Arora delivered the following talks during the Inaugural Sessions of the following two national seminars:

i) Future of Libraries: Writing on the Wall", keynote address delivered during the inaugural session of the "Seminar on Academic Libraries in Electronic Era", 17th– 18th January, 2012, SNDT University, Mumbai.

ii) "Future of the Libraries: A view Point" keynote address delivered during the in augural session of the "National Conference on Librarianship in Digital Era", 20th- 21st January, 2012, Bhai Gurdas Central Library, Guru Nanak Dev University, Amritsar.

Dr. Jagdish Arora visited Dr. B R Ambedkar University, Lucknow from 27th to 28th February, 2012 and Dibrugarh University from 12th to 13th March, 2012 as Chairman of the Committee constituted by the UGC for setting up of Media Centres in these universities. Dr. Arora was nominated as Member of the Standing Committee for e-content development at postgraduate level by the UGC. He has also been designated as National Coordinator (Technical) for the "e-PG Pathshala".

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Manoj Kumar K, Scientist-D (CS), INFLIBNET Centre, Ahmedabad

Goa University invited Sh. Manoj Kumar K, Scientist-D(CS) for Refreshers course organised by Academic Staff college and Goa University library for College Librarians to deliver a lecture on "Shodhganga and NLIST" on 26th March 2012. The program was attended by 30 participants. Many colleges came forward to join NLIST program during the session.

Manoj Kumar K, Scientist-D(CS) delivered Keynote Address in the Symposium on Bridging Information Centres (BrIC 2012) organised by the Anna University, Chennai on 28th March 2012. The symposium was inaugurated by Dr. P Mannan Jawahar, Vice- Chancellor, Anna University.

H G Hosamani, Scientist-C (LS), INFLIBNET Centre, Ahmedabad

H G Hosamani, Scientist-C (LS) was invited to deliver a talk on "Next Generation Webopac for Library e-resources: Meets Web 2.0" during the 4th Refresher Course under the broad theme of "Challenges and Opportunities in Post Modernized Era of Libraries" jointly organised by Department of Library and Information Science and Academic Staff College at Gujarat University, Ahmedabad during 9 to 29th January, 2012.

H G Hosamani, Scientist-C (LS) was invited to deliver a talk on "The State-of-Art Library Management Software - SOUL 2.0" in UGC Sponsored 11th Refresher Course in Library and Information Science on the theme "Advancement in Library and Information Science" organized by DLISc and Academic Staff College, at Dr Babaseheb Ambedkar Marathawada University, Aurangabad during 6th to 25th February, 2012. IN



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Awareness programme on N-LIST

Correspondent

NALGONDA: A day's user awareness programme on N-LIST (national library and infor-

mation services infrastructure for scholarly content) INFLIBNET. Prof. K. Narawill be organised on February 8 at N.G. College, in collaboration with M.G. University. chief guest.

It is sponsored by the UGCsimha Reddy, Vice-Chancelfor of the university, will the

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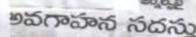
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-හාරි) රැක්කුණායි කරඩා වේලංචා ాం సెమినారపోల్లో అవగాపాన ను to and animal and వస్సుకు ఎంజీ యునివర్పటి పైన ෝස්ත්රාන්ත්රානයට මඩාවිත්.



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