Annual Report

April 1, 2014 to March 31, 2015

Information and Library Network Centre
Gandhinagar

INFLIBNET

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2015

Dr. Jagdish Arora
Director

I am pleased to present Annual Report of the Information and Library Network (INFLIBNET) Centre, April 1, 2014 to March 31, 2015 to the academic community in India. It has always been our endeavour to take up new assignments and projects that give us opportunities to use new technologies and bring out products and services that are useful to the higher education academic community. The year under report started on a good note with sanctioning of two major projects namely, Integrated e-Content Portal, christianized as "e-Acharya" and Vidwan: Expert Database and National Research Network funded by the National Mission on Education through ICT (MHRD). The project on Integrated e-Content Portal envisages to host and provide integrated and structured access to all e-content created with funding from the NME-ICT on a long-term basis beyond the active period of NME-ICT. The Vidwan project proposes to host profiles of experts in various subject disciplines working in universities and research institutions in India as well as Indian experts working abroad. Significant work has been done in both the projects during the year under report.

The Centre has also applied for a project on setting up of ICSSR Data Service: Social Science Data Repository. The project envisage to host NSS and ASI datasets generated by Ministry of Statistics and Programme Implementation (MoSPI) into a data repository, and make it accessible to the end users in a variety of formats enabling them to do online analysis and visualisation of data using tools and techniques that would be developed specifically for the repository. The scientists of Centre are excited to use their expertise for developing such a useful tool for the benefit of academic community. The Centre has also taken up the task of ranking Indian Universities using well-established ranking formula that are evolved using well-balanced, multi-dimensional approach, combining qualitative and quantitative indicators. The portal on ranking of Indian Universities (www.inflibnet.ac.in/iur/) facilitates overall ranking of 160 universities that have published more than 245 articles (indexed in Web of Science from 2009-2013). The portal also facilitates ranking of 160 universities in 8 subject domains. The ranking results of these 160 universities can also be sorted based on i) four individual performance indicators; ii) types or categories of institutions; and iii) universities within a state or

geographical region. The portal also list remaining 633 universities that did not qualify for ranking as per number of research publications published by them and covered in Web of Science.

I am pleased to announce that the INFLIBNET Centre was selected as the agency for implementation of Capacity Building Programme of the National Mission on Libraries. This would include imparting training programmes to personnel working in institutions under the Ministry of Culture as well as in public libraries across the country. While some of these training programmes would be organised at the INFLIBNET Centre, others would be organised in various cities in India in collaboration with district public libraries, RRLF and National Library.

While taking new projects and schemes, it was ensured that our existing initiatives are not neglected. Shodhganga: a repository of full-text theses in Indian Universities has grown by leaps and bounds during the year under report. As on 31st March, 2015, 203 universities have signed MoU on Shodhganga with the INFLIBNET Centre including 40 universities who signed the MoU during the financial year under report. Total numbers of theses deposited in the repository have grown to more than 34,600. Moreover, 42 universities that are signatory to MoU with INFLIBNET Centre on Shodhganga, have received funds from UGC as per the recommendation of the INFLIBNET Centre as incentive for joining this initiative. In addition, recommendations for release of funds to 37 universities signatory of MoU with INFLIBNET Centre is awaiting release of funds from UGC. These universities can now digitize backlists of their theses, setup ETD laboratory and get access to anti-plagiarism detection software through INFLIBNET Centre.

The proposal for providing plagiarism detection software to the universities who have signed MoU with INFLIBNET Centre was finally materialised during the year under report. 110 eligible universities who have signed MoU with INFLIBNET Centre on Shodhganga were given access to two plagiarism detection software called Turnitin and iThenticate. It is proposed that access to one of the software would continue in the next financial year.

Although we occupied the new building of the Centre in Gandhinagar in January 2013, its computing and networking infrastructure was built gradually over a period of one-and-a-half year. With setting up of Data Centre, the Centre started extending its support to academic and research institutions for setting up their institutional repositories and websites and hosting them at the Data Centre at INFLIBNET Centre. Several universities and research institutions are currently availing our hosting services. These universities include NIOH, Ahmedabad, NASDO, Goa, Ganpat University, Mehsana, ARAI and IUCAA, Pune and Central University of Haryana, Mahendragarh.

Imparting training to manpower working in university and college libraries in the use of ICT is an important objective of the Centre. With availability of adequate physical, computing and networking

infrastructure in the new building of the Centre, due emphasis is being given to this activity. During the year under report, the Centre conducted 58 programmes including three conferences (CALIBER, PLANNER and ETD) and 55 training programmes, workshops and awareness programmes. These programmes benefitted 4,962 library professionals and other users. A brief write-up on each of these conferences and training programmes given in the report.

10th International CALIBER 2015, the bi-annual events of INFLIBNET Centre, was organized at Shimla in collaboration with Himachal Pradesh University and Indian Institute of Advanced study from 12th to 14th March, 2015. The theme of the CALIBER 2015 was Innovative Librarianship: Adapting to Digital Realities. More than 250 delegates participated in the Convention including delegates from USA, UK and Sri Lanka. The 10th International CALIBER 2015 was inaugurated by Prof. S V Raghavan, the Chief Architect of National Knowledge Network and Scientific Secretary to Government of India. Prof. Ajit Kembhavi, Director, IUCAA, Pune was the keynote speaker for the Convention.

9th PLANNER 2014 was organised at Dibrugarh University from 25th to 27th September, 2014 with an aim to continue our activities and services in the North-Eastern region in spite of budget constraints. The theme of PLANNER 2014 was "Capacity Building in Library and Information Services". The 9th PLANNER 2014 was inaugurated by Prof. Alak Kumar Buragohain, Vice Chancellor, Dibrugarh University. Mrs. Kalpana Dasgupta, Former Librarian, National Library was the keynote speaker for the Convention. The recommendations made during PLANNER 2014 are being implemented. The Centre had requested allocation of funds to the UGC for continuing its services and activities in North-Eastern Region. I am happy to inform that the UGC is in the process of considering allocation of additional funds for supporting continuation of our activities and services in North-Eastern Region.

Providing access to scholarly content through library consortia is one of the key and most prominent activity of the Centre. The year under the report was one of the eventful year, wherein the UGC-Infonet Digital Library Consortium, dropped for the XII Plan Period was restored without any break. Moreover, the year witnessed N-LIST graduating from being a project funded by the MHRD under its National Mission on Education through ICT (NME-ICT) to a regular scheme of the UGC. The N-LIST, thanks to huge response from colleges, was subsumed into a UGC-Infonet Digital Library Consortium as its College Component. 411 Universities including 216 core member universities and 195 associate members are being provided differential access to subscribed e-resources under UGC-Infonet Digital Library Consortium. 4,100 eligible colleges are getting access to subscribed resources. Log-in Ids and passwords have been issued to more than 8,08,613 authorised users from the eligible colleges under N-LIST programme.

With active intervention of Vice Chairman, UGC, the activities of content creation continued with greater vigor and fervor under e-PG Pathshala project funded by the National Mission on Education

through ICT. New features and functionalities were added to the open source Learning Management System used for hosting e-content created under the project as well as to the e-Pathshala Management System developed in-house to manage the administrative workflow as well as a platform to meet / interact among the team members of each subject and maintain / track the work progress made by stake-holders. 70 Principal Investigators (PIs) for different subjects have been identified and appointed across central, state and deemed universities and other institutions. 1,200 modules have been developed and are being uploaded on the e-Pathshala LMS. Workshops were organized for preparation of self-learning quadrant of e-content modules in several subjects handled by the INFLIBNET Centre. I am pleased to report that the Centre has completed almost all modules in all 20 papers in Library and Information Science. Video recording for self-learning module for some of the papers is under progress. All e-content developed under the e-PG-Pathshala Programme are available in open access at epgp.inflibnet.ac.in.

The Centre continued to maintain the websites of the UGC and Development of Grant Management System, e-Scholarship-Fellowship Award for the UGC. Interfaces for four scholarships / fellowships were developed during the year. Applications were invited and processed using these interfaces.

I am sure that the services of the Centre were delivered to the users in universities and colleges more efficiently and effectively during the year. The Centre is, however, open to receive suggestions and comments from our user community.

(Jagdish Arora)

Contents

Appendices

PART - I

Introduction, Aims & Objectives, Governing Structure and Human Resources

1. Introduction

The Information and Library Network (INFLIBNET) Centre is an autonomous Inter-University Centre (IUC) of the University Grants Commission (UGC) located in the Infocity, Gandhinagar. Major activities and services of the Centre are geared towards modernization of academic libraries and information centres, promotion of information transfer and access, support scholarship, learning and academic pursuits. The Centre acts as a nodal agency for networking of libraries and information centres in universities, institutions of higher learning and R & D institutions in India. The Centre was established as an independent autonomous Inter-University Centre of the UGC in May 1996 and set out to be a major player for promoting scholarly communication among academicians and researchers across the country.

The technology being a driving force in the contemporary education system, the Centre has taken-up a number of initiatives for the benefit of the academic community in India. These initiatives include i) IndCat, a unified online catalogue of books, theses and journals available in major university libraries in India; ii) SOUL 2.0, state-of-the-art integrated library management software; iii) UGC-Infonet Digital Library Consortium for extending access to selected scholarly electronic journals and databases to the universities in different disciplines; iv) N-LIST for providing access to electronic journals and electronic books to eligible colleges; v) Shodhganga for enabling online submission of doctoral theses and dissertations by research scholars in an open access digital repository; vi) Shodhgangotri for facilitating research scholars to submit approved synopsis of research proposals submitted to their universities; vii) Open Journals Access System (OJAS) to facilitate faculty and researchers in Indian universities to launch their open access journals on OJAS platform; viii) InfoPort: INFLIBNET's Subject Gateway for Indian Electronic Resources; ix) e-PG Pathshala, a project assigned to the UGC by NME-ICT, wherein e-content are being developed in 77 subjects at postgraduate level; x) VIDWAN, a premier database of profiles of scientists and faculty members working in leading academic institutions and other R & D organisations involved in teaching and research in India; and xi) e-Acharya - an Integrated e-content portal: a web-based portal consisting of all e-content developed and funded under NME-ICT.

2. Mission and Vision

- ⏩ Leveraging on the latest technology, create a virtual network of people and resources in academic institutions with an aim to provide effective and efficient access to knowledge through perseverance, innovation and collaboration;

- ⏩ Provide seamless, reliable and ubiquitous access to scholarly, peer-reviewed electronic resources to the academic community in all educational institutions with a focus on services and tools, processes and practices that support its effective use and increase value of this information;

⏩ Build and strengthen ICT infrastructure in educational institutions with value-added services;

⏩ Develop tools, techniques and procedures for secure and convenient access management enabling users to access information in electronic format from anywhere, anytime;

⏩ Develop resource selection guides and online tutorials for effective delivery and usage of e-resources; and

⏩ Facilitate creation of open access digital repositories in every educational institution for hosting educational and research content created by these institutions.

3. Aims and Objectives

The objectives of the Centre, as per the Memorandum of Association (MoA), are as follows:

a. to promote and establish communication facilities to improve capability in information transfer and access that provide support to scholarship, learning, research and academic pursuits through cooperation and involvement of concerned agencies;

b. to establish information and library network - a computer communication network for linking libraries and information centres in universities, deemed to be universities, colleges, UGC information centres, institutions of national importance and R&D institutions, etc. avoiding duplication of efforts;

> ⏩ to promote and implement computerization of operations and services in the libraries and information centres of the country following uniform standards;

> ⏩ to evolve standards and uniform guidelines in techniques, methods, procedures, computer hardware and software, services and promote their adoption in actual practice by all libraries, in order to facilitate pooling, sharing and exchange of information towards optimal use of resources and facilities;

> ⏩ to evolve a national network interconnecting various libraries and information centres in the country and to improve capability in information handling and services;

> ⏩ to provide reliable access to document collection of libraries by creating on-line union catalogue of serials, theses / dissertations, books, monographs and non-book materials (manuscripts, audio-visuals, computer data, multimedia, etc.) in various libraries in India;

> ⏩ to provide access to bibliographic information sources with citations, abstracts, etc. through indigenously created databases of the Sectoral Information Centres of NISSAT, UGC

Information Centres, City Networks and such others and by establishing gateways for online accessing of national and international databases held by the national and international information networks and centres, respectively;

⏩ to develop new methods and techniques for archiving of valuable information available as manuscripts and information documents in difference Indian languages, in the form of digital images using high density storage media;

⏩ to optimize information resource utilization through shared cataloguing, inter-library loan service, catalogue production, collection development and thus avoiding duplication in acquisition to the extent possible;

⏩ to enable the users dispersed all over the country, irrespective of location and distance, to have access to information regarding serials, theses/dissertation, books, monographic and non-book materials by locating the sources wherever available and to obtain it through the facilities of the INFLIBNET and union catalogues of documents;

⏩ to create databases of projects, institutions, specialists, etc. for providing online information services;

⏩ to encourage co-operation among libraries, documentation centres and information centres in the country, so that the resources can be pooled for the benefit of helping the weaker resource centres by stronger ones; and

⏩ to train and develop human resources in the field of computerized library operations and networking to establish, manage and sustain INFLIBNET;

c. to facilitate academic communication amongst scientists, engineers, social scientists, academicians, faculty, researchers and students through electronic mail, file transfer, computer/audio/video conferencing, etc;

d. to undertake system design and studies in the field of communications, computer networking, information handling and data management;

e. to establish appropriate control and monitoring system for the communication network and organize maintenance;

f. to collaborate with institutions, libraries, information centres and other organizations in India and abroad in the field relevant to the objectives of the Centre;

g. to promote R&D and develop necessary facilities and to create technical positions for realizing the objectives of the Centre;

h. to generate revenue by providing consultancies and information services; and

i. to do all other such things as may be necessary, incidental or conducive to the attainment of all or any of the above mentioned objectives.

4. INFLIBNET Centre's Physical Infrastructure

The Centre moved to its new institutional building constructed on land measuring 10,000 Sq. Mtrs in Infocity, Gandhinagar. The Centre is located amidst reputed institutions such as NID, DAIICT and NIFT. The building, consisting of Administrative, Academic and Residential Blocks, is designed by internationally acclaimed architect and renowned academician Dr. Balkrishna V Doshi of Vastu-Shilpa in consultation with other experts in the field of sustainable, eco-friendly and energy-efficient building. The building is furnished tastefully by M/s Godrej. It is partially air-conditioned and partially air-cooled following tenets of a green building. The current composition of the Building committee is given in Appendix I.

5. Governance

The Centre is governed by its Governing Board and Governing Council. The Finance Committee, a subcommittee of the Governing Board, looks after the financial aspects of the Centre. Constitution and major responsibilities of these three committees are described below:

5.1. Governing Council

Governing Council (GC) is an apex body of the Centre chaired by its President, ex-officio Chairman of the UGC. The Council has seven ex-officio members and three nominated members. The members of the Governing Board are also members of the Council. As such, total number of members of the Council is twenty-one. The nominated members of the Council serve for a term of 3 years. The Director, INFLIBNET is the Member-Secretary of the Council. The Council meets once in a year. The present members of the Governing Council are listed in Appendix II.

5.2. Governing Board

Governing Board (GB) manages, administers, directs and controls the affairs of the Centre as per Rules and Bye-laws of the Centre. The Governing Board is headed by a Chairperson, who is an eminent academician in the areas of relevance to the Centre and is appointed by the President of the Council. The Governing Board has six ex-officio members and seven nominated members who are nominated by the Chairman, UGC. The Director, INFLIBNET is the Member-Secretary of the Board.

The Governing Board meets at least twice in a year. The current members of the Governing Board are listed in Appendix III.

5.3. Finance Committee

The Finance Committee (FC) is a sub-committee of the Governing Board and consists of seven members. It has three ex-officio members and four nominated members. The Chairman of the Governing Board is also the Chairman of the Finance Committee. The Administrative / Accounts Officer of the Centre is the Non-member Secretary of the Committee. The Finance Committee makes recommendations to the Governing Board on i) Budget proposals of the Centre; ii) Scrutiny of the Audited Accounts and replies to the annual Audited Report; iii) Approval of sanctioned and additional positions; and iv) any other matter on which the Board seeks its recommendations. The Finance Committee meets at least once a year. The minutes of the Committee, after approval by the Governing Board are forwarded to the UGC for examination, approval and release of grants to the Centre. The members of the current Finance Committee are listed in Appendix IV.

6. Human Resources

The Centre employs administrative, scientific and technical personnel for achieving its defined objectives. The technical personnel are mostly qualified in library, information and computer sciences. A list of technical, administrative and supporting staff of the Centre as on 31st March, 2015 is given in Appendix V.

6.1. Functional Group@ INFLIBNET Centre

The scientific and technical manpower available in the Centre are clustered into the following five/six working groups based on functional requirements of the Centre. Major R&D and human resource development activities are undertaken according to the requirements of the library and academic community including students, faculty and research scholars. Major scientific and technical activities undertaken by the Centre during the period under report are given in Part II of this report.

Part - II

Activities and Services of the INFLIBNET Centre

1. Automation of University Libraries

The University Grants Commission, on recommendation of the INFLIBNET Centre, had supported 142 universities during IX Plan period and 24 universities during XI/XII Plan periods for automation of their libraries with software and training support from the INFLIBNET Centre. The total funds allocated to 24 universities for automation of their libraries during XI/XII Plan period is Rs. 195.60 lakhs including Rs. 6.50 lakhs for purchase of equipment (PCs, Servers, Accessories, Scanner, etc.) and Rs 1.65 lakhs recurring grant for five years for each of the 24 universities. The Centre proactively helped these universities to automate their libraries.

2. IndCat: Union Catalogue of Indian Universities (http://indcat.inflibnet.ac.in/)

A brief description of three components of the union catalogue i.e. books, theses and serials maintained by the Centre is given below. Figure 1 depicts current interface of the IndCat.
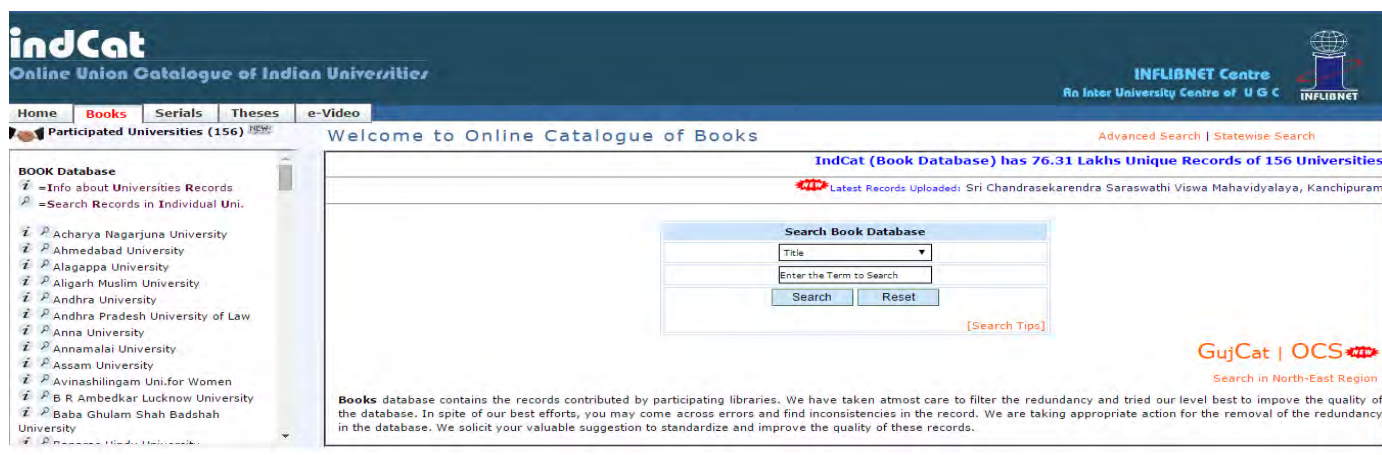

Fig. 1: Search Interface for Books, Theses, Serials & Video Databases

Figure 2 displays bibliographical details with MARC Tag

Fig. 2: Bibliographical Details in MARC Format

2.1. Union Catalogue of Books

Abhishek Kumar, Scientist C (CS)

Vaishali Shah, Scientist B (LS)

Dharmesh Shah, STA (CS)

Seema Chavda, Project Officer (LS)

Sonal Vaghela, Project Associate (LS)

2.1.1. Process for Building IndCat

Process of building IndCat commences with creation of bibliographic records in participating university libraries and their receipt at the INFLIBNET Centre. Steps involved in building of IndCat database is as follows:

Step 1. INFLIBNET Centre receives bibliographic records from Indian universities in different formats, such as MS-Excel, MS-Access, Dbase / Foxpro, CDS/ISIS, WIN ISIS, MS-SQL Backup, CCF, MARC, LibSys, Soul 2.0, etc.

Step 2. Records received in different formats are converted into Common Communication Format (CCF) (by Tag Mapping using CDS/ISIS Software).

Step 3. All records go under the process of authentication, using Union Catalogue Management System (UCMS) software for editing typographical errors in various fields such as place, publisher, edition, year of publication, etc. in addition to duplicate checking and merging of these records into Indian Catalogue IndCat.

Figure 3 given below depicts process of building IndCat.

Receiving bibliographic records from different universities created using diverse software/format

(Soul, LibSys, CCF, Excel, dBase, Access, etc.)

Convert in International Bibliographic Standard Format

(Proccess data with Authentication, Remove Typographical Mistakes, Duplicate Checking and Convert MARC Format)

Upload on the IndCat Website (Open Access, Basic and Advanced Search facilities with Browsing by Title, Author, Place, Publisher, Location, ISBN, ISSN etc., Search by University wise, Statewise, Region wise, Download records)

Fig. 3: Process Involved in Building IndCat

Searches can be performed on title, words in title, author, subject, ISBN, location, place and publisher in the union database of books through IndCat interface. The IndCat interface facilitates restricting the search to collections available within an individual university as well as for expanding the search to universities in a given state. By default, the interface searches all bibliographic records

of documents available in IndCat for all the participating universities. The search results retrieved from the IndCat can be displayed in the following two formats:

⇥ **Brief**: By default, retrieved records are displayed in brief. A brief bibliographic record contains title, authors, place, publisher and year of publication.

⇥ **Descriptive**: A detailed descriptive record contains complete bibliographic details of a book including its location. It is a second-level display that appears when a user clicks at the brief record. The descriptive record also provides option for ILL request. Figure 4 depicts bibliographic details of searched records.
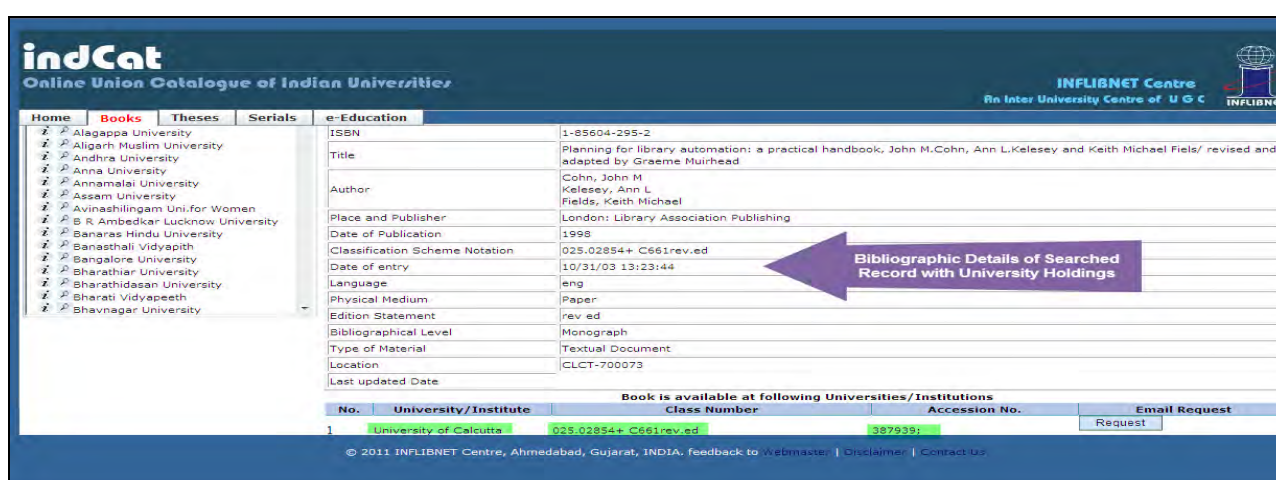
Fig. 4: Bibliographic Details of a Searched Record

2.1.2. Functions and Features of IndCat

i) Restrict Search within a University / State

Searches in Union Catalogue, by default, is conducted on the entire database containing records of documents from all universities. Users can restrict their searches to the records of documents available within their own university on different search parameters like Title, Subjects, Authors, Place, Publisher, etc.

State wise Search: User can search the book database within a State by Title, Authors, ISBN etc.; and

Advanced Search: Advanced search facilitates use of Boolean operators i.e. AND, OR, NOT operators with different search parameters i.e. Title, Authors, Corporate Body, Place & Publisher, Year, Subjects, Notes, ISBN.

ii) Copy Cataloguing

The copy cataloguing feature of the IndCat facilitates downloading of bibliographic records in

MARC21, CCF or ASCII format. The downloaded bibliographic records can be imported to any library management software compliant to MARC21 bibliographic format including SOUL 2.0. Effectively, librarians / cataloguers can copy-catalogue bibliographic records of books instead of creating a new record which is a time-consuming and cost-intensive process.

iii) Union Catalogue of Books: Subsets

The union catalogue of books has two subsets namely GujCat and NERCat that are separately designed on demand of the concerned regions:

- The **GujCat**, a subset of IndCat, is unified online library catalogue of books available in major college/institute/university libraries within Gujarat state. GujCat contains bibliographic description, location and holding information of books available in libraries in Gujarat. A separate dedicated web-based interface is designed to provide easy-access to the merged catalogues of libraries in Gujarat. GujCat is a major source of bibliographic information that can be used for inter-library loan, collection development as well as for copy cataloguing and retro-conversion of bibliographic records within Gujarat.

- The **NERCat**, an online catalogue of books in universities in North-Eastern Region, is another subset of IndCat. NERCat is designed and implemented to restrict searching of bibliographic records to university libraries in North-Eastern region so as to promote resource sharing amongst university libraries in North-Eastern region.

2.1.3. Bibliographical Records for Books Added during Year 2014-2015

The Centre received data from six universities in different bibliographic formats as per the details given in Table 1 below.

Sl. No.	University Name	Received Records	Updated Records	Earlier Received Records
1	Acharya Nagarjuna University, Guntur	61,448	34,959	26,489
2	Gauhati University, Guwahati	1,16,827	1,16,827	2,135
3	Gujarat Vidhyapith, Ahmedabad	5,62,512	1,20,644	4,41,868
4	Hemchandracharya North Gujarat University, Patan	68,534	44,394	24,140
5	Jain Vishva Bharati University, Ladnun	40,516	35,804	4,712
6	Swami Ramanand Teerth Marathwada University, Nanded	38,549	26,051	12,498
	Total received Updated Records		**3,78,679**	

Table 1: Details of Bibliographic Records Received from Six Universities

During the period under report, the Centre has merged bibliographic records of 6 universities mentioned above in IndCat as per the details given in Table 1 above with all bibliographical details after the process of conversion of data from different formats to one common format i.e. CCF and MARC 21 as well as after correcting typographical errors, duplicate checking within a university and matched records checking.

Details of merged bibliographic records of three universities in IndCat using UCMS software is given below in Table 2:

Sl. No.	University Name	Received Records	*Duplicate Records	#Matched Records	+Merged Records
1	Dharmsinh Desai University, Nadiad	16,063	534	50	15,457
2	Gauhati University, Guwahati	1,16,827	4,162	58	1,12,607
3	Jain Vishva Bharati University, Ladnun	35,804	270	62	35,472

  *Records already exist in same university i.e. multiple copies
  #University's records already exist in IndCat Database, only holding information is updated
  +Merged records are added to IndCat Database i.e. unique records

Table 2: Merged Bibliographic Records of Three Universities in Union Database (IndCat)

Table 3 given below provides holding records added to the Union Database of Books during the period under report.

Sl. No.	Details	No. of Records added During the year 2014-2015
1	Unique Records	1,63,536
2	Holding Records	1,63,706

Table 3: Bibliographic Records Authenticated and Merged in Union Database (IndCat)

2.1.4. Growth of the Union Catalogue of Books

Building and maintaining a union catalogue is an ongoing activity involving collaboration of all participating libraries. The Union Catalogue of Books is essentially an outcome of financial and logistic support that was extended to the participating universities by the Centre for creating bibliographic records of their library collections. With initial financial incentives backed-up with logistic support in terms of training on integrated library management software including SOUL, the union Catalogue of Books has witnessed a rapid growth. The union catalogue of books has grown from 6.5 lakh records in 1999 to 131 lakh records in 2015 as depicted in Table 4 and Figure 5 given below. List of universities and number of records contributed by them are listed in Appendix VI.

Year	Received Records (in lakhs)	Unique Records (in lakhs)
1999	6.5	2.7
2003	12	5.8
2007	82	30.3
2011	119	61.8
2013	127	73
2014	128	74
2015	131	75.7

**Table 4: Growth in No. of Bibliographic Records in IndCat from 1999 to 2015**

Fig. 5: Growth of Union Catalogue of Books

2.1.5. Online Copy-Catalogue System (OCS)

The Centre has developed an application software called "**Online Copy-Catalogue System"** (OCS) to promote co-operative cataloguing and avoid duplication of efforts. The interface called "Online Copy Catalogue System (OCS)" is a Window-based application that facilitates libraries to interact with the Union Catalogue of Books (IndCat) and catalogue their new acquisitions online. The OCS, on one hand, facilitates libraries to search and browse bibliographic records of documents available in IndCat and download selected records directly into SOUL 2.0 or any MARC21 compliant software. The holding information for the bibliographic record being downloaded from the IndCat gets updated automatically in the process. On the other hand, the interface facilitates creation of a new record for a document that is not available in the IndCat. This new record gets saved into local integrated LMS as well as into the IndCat simultaneously. Besides, online cataloguing and copy cataloguing, the interface also facilitates bulk uploading and downloading of bibliographic records of books. More details on OCS are available at:

http://indcat.inflibnet.ac.in/includes/UserGuide_OCS.pdf

2.1.6. Major Achievements during Financial Year 2014-15

➤ Updated bibliographic records received from 6 universities;

➤ Bibliographic data of books for 3 universities were merge after editing them through UCMS;

❯❯ The Centre launched beta version of "Theses and Serials Databases" on a new platform for fast access including faceted search and filtered search on different parameters, i.e. university-wise, department-wise, subject-wise, publisher-wise, etc. and combination of these parameters. The Centre launched beta version of union catalogue on a new platform which includes all databases i.e. book, theses, serial and CEC's Video records. Through this version, universities may update their records directly by login into system; and

❯❯ Features and functionalities of UCMS were further enhanced. Significant improvements were made in the process of merging of bibliographic data into union database.

2.2. Union Catalogue of Serials

Dinesh Ranjan Pradhan, Scientist B (LS)
Arpita Barot, Project Assistant (LS)

The INFLIBNET Centre maintains union database of serials that provides bibliographic information of journals subscribed in various universities and maintains the information in three categories, namely Serials Holdings and Current Serials and e-journals. "Serials Holdings" provides data on library holdings, i.e. back files of journals, whereas, the "Current Serials" provides titles of the serials that are currently subscribed by the universities in print format and "e-journals" that are: i) currently subscribed by the participating universities in electronic formats; ii) journals subscribed under the UGC-Infonet Digital Library Consortium in electronic format; and iii) serials available in open access mode.

The Serials Database includes bibliographic information of serials (including journals, periodicals, annuals and serials) available 213 universities / institute libraries along with its holdings information (includes available and missing volumes of the journals) in participating libraries. The serial database has over 34,764 unique titles with holdings information for 213 universities. Each bibliographic record for serials contains title, publisher, frequency, year of publication, homepage URL and subject headings along with holdings details and names of the universities.

2.3. Union Catalogue of Theses

Abhishek Kumar, Scientist C (CS)
Miteshkumar Pandya, Scientist B (LS)
Dharmesh Shah, STA (CS)
Alpa Acharya, Project Associate (LS)

The Union Catalogue of Theses consists of bibliographic records of doctoral theses submitted to the universities in India. The database contains 2,65,727 unique bibliographic records of the theses awarded by 301 Indian universities / institutions in all disciplines. The bibliographic records of theses are contributed by participating universities. Besides, records in the database have also been collected from other reliable sources such as notification from universities, University News and

Records submitted by the individual researchers, etc. Figure 6 depicts web interface for Union Catalogue of Theses Database.
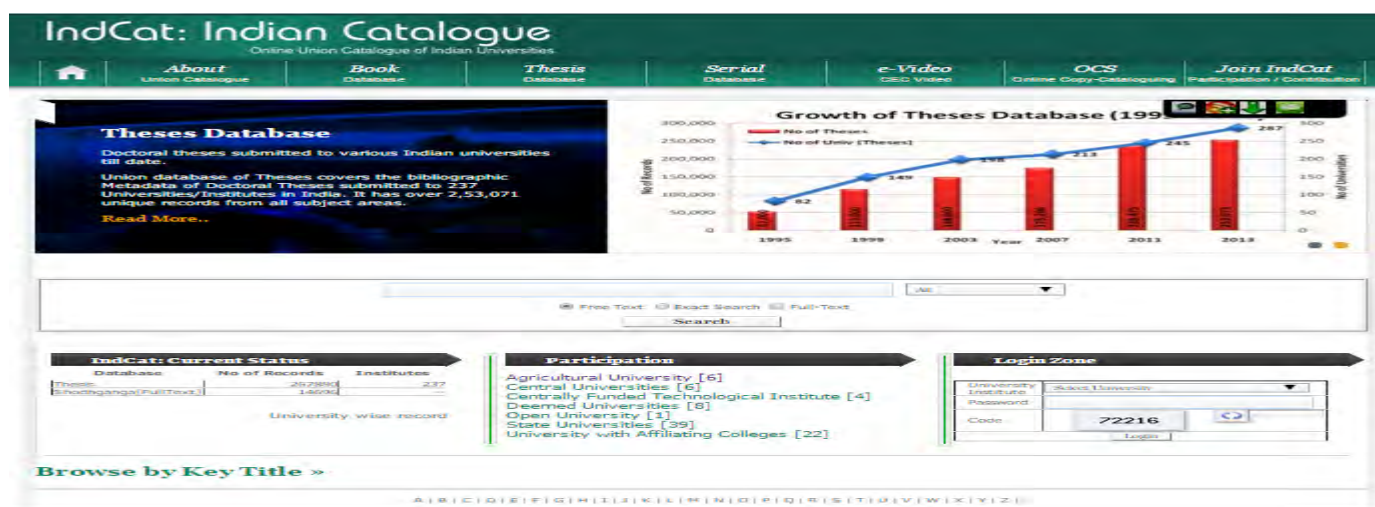
Fig. 6: Union catalogue of Thesis Database Inferface

The compilation of Union Catalogue of Theses commenced in 1995 with 52,000 records from 82 universities. The database has grown to 2,65,727 records as on 31st March, 2015 from 301 universities over a period of 21 years.

The Centre receives a copy of notification on award of Ph.D. theses from different universities across the country. Table 5 and Figure 7, given below depict growth of theses database from 1995 to March 2015.

Year	No. of Universities	No. of Records
1995	82	52,000
1996	95	65,000
1997	110	72,000
1998	134	90,000
1999	149	1,15,000
2000	160	1,28,000
2001	172	1,35,000
2002	189	1,42,000
2003	198	1,48,000
2004	209	1,52,000
2005	211	1,71,176
2006	213	1,75,206
2007	213	1,75,206
2008	237	2,20,206
2009	237	2,20,206
2010	237	2,37,393

2011	245	2,38,475
2012	270	2,44,927
2013	286	2,52,885
2014	298	2,64,628
2015	301	2,65,727

Table 5: Growth in Number of Records in Theses Database: 1995 – 2015
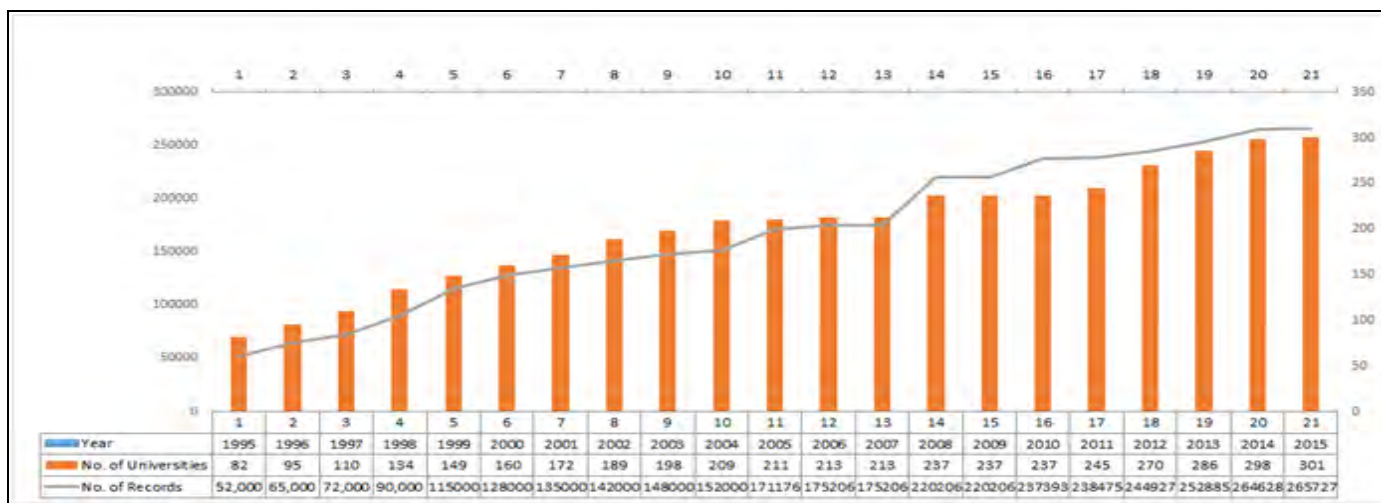
Fig. 7: Year-wise Growth of Theses database

Theses database can be searched through IndCat interface by title, researcher, research supervisor, university, department, year of submission, keywords, etc. Bibliographic records of theses are linked to full-text records in "Shodhganga", if available. Names of universities and the number of records contributed by them to the union catalogue of theses are given in the Appendix VI.

3. VIDWAN: Expert Database (http://vidwan.inflibnet.ac.in)

Kannan P, Scientist C (LS)

Abhishek Kumar, Scientist C (CS)

Mrs. Hetal Oza, Sr. Project Officer (CS)

Mr. Akshay Kumar Choudhary, Project Associate (CS)

Mr. Sanjay Kumar Pillai, Project Associate (LS)

Ms. Asha Vaghela, Project Assistant (CS)

Mr. K. Kameswaran, Project Assistant (LS)

Ms. Dipika Makwana, Project Assistant (LS)

Ms. Bhakruti Rashtrapal, Project Assistant (LS)

VIDWAN: Expert Database is the premier database of profiles of scientists and faculty members working in leading academic institutions and other R & D organisations involved in teaching and research in India. It provides important information about expert's background, contact address, skills and accomplishments. The objective of this database is i) quickly and conveniently provide information about experts to peers, prospective collaborators, funding agencies, policy makers and research scholars in the country; ii) to establish communication directly with the experts who

possess the expertise needed by research scholars; iii) to identify peer reviewers for review of articles and research proposals; iv) to create information exchanges and networking opportunities among scientists; and v) to discover prospective collaborators for on-going research projects.

As on 31st March 2015, the database contains 16,426 profiles of experts from 1,781 leading academic institutions, R&D organisations including IITs, CSIR, DRDO, etc. Persistent attempts are made to provide relevant, accurate and updated information about experts. Web enabled interface has been developed to facilitate the search and browsing of profiles of experts. The database can be searched on parameters such as name, designation, area of expertise, organisation, state, etc. Profiles of experts can also be browsed using Web of Science subject categories and organisation categories. Login IDs and passwords have been issued to experts whose profile is available in the database with a persistent URL enabling them to update their profiles. Figure 8 depicts screenshot of VIDWAN: Expert Database website.

Fig. 8: VIDWAN: Expert Database @ INFLIBNET Centre

3.1. Progress Made During the Year 2014-2015

During the period under report, the Centre has sent letters to 721 degree awarding Institutions, 307 R&D Organisations and 231 Colleges with Potential Excellence to nominate experts from their respective organisations and nominate nodal officers to coordinate the process of populating the database with records of experts. The Centre has also sent emails to 13,276 faculty members working in the arts and science colleges across the country to register with the expert database. 3,882 new profiles have been added to the database and 2,361 profiles were updated by registered experts. The expert profiles are collected via nomination from scientific and academic organisations, national level academics, websites of respective organisations and email invitation to experts as well as by voluntary registration. Figure 9 and Figure 10 depict number of experts with their subject categories and organisation categories available in Vidwan.
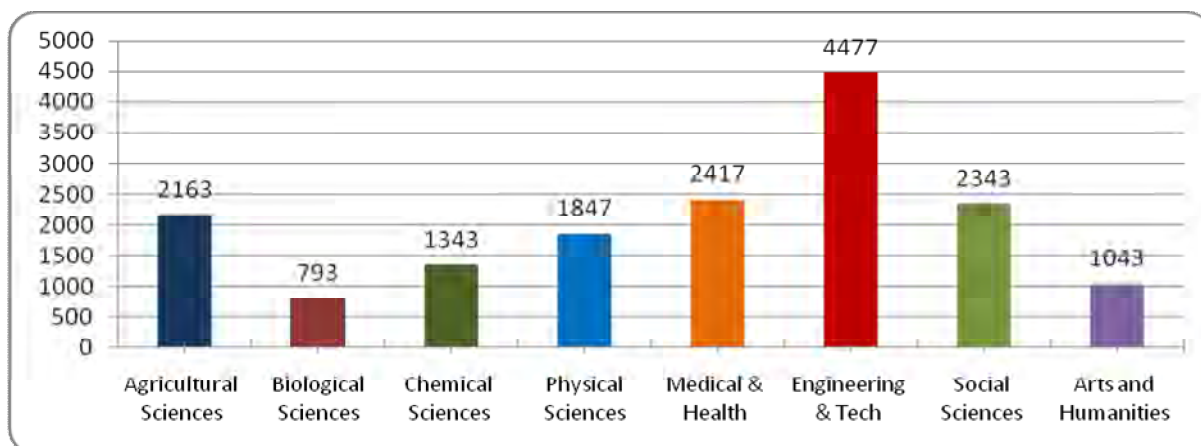
**Fig. 9: Number of Experts and their Web of Science Subject Categories in VIDWAN Database**
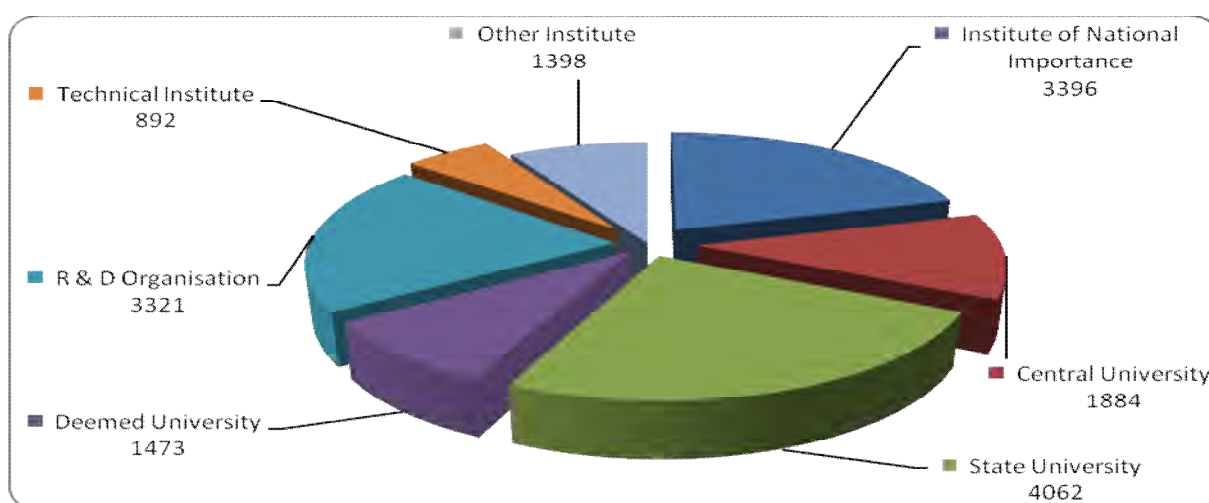
Fig. 10: Number Experts and their Organisation Categories in VIDWAN Database

3.2. VIDWAN new Interface

Kannan P, Scientist C (LS)

Mr. Akshay Kumar Choudhary, Project Associate (CS)

Ms. Asha Vaghela, Project Assistant (CS)

As per the Google analytics, more than 35% users access VIDWAN database through their mobile or tab and access through mobile devices is gradually increasing. The Centre has designed new responsive and mobile friendly interface as shown in Figure 11, to enrich the user experience with the following features:

i)   Faceted search with filter to narrow the search result;

ii) Facility to import bibliographic details of publications in standard format (BibTeX);

iii) Import publications from academic identity such as ORCID, Microsoft Academic Search ID, Google Scholar ID, Researcher ID, Scopus ID;

iv) Value addition to display expert's profile with similar other experts and experts from the same organisation; and

v)   Embed Co-author map from Microsoft Academic Search.
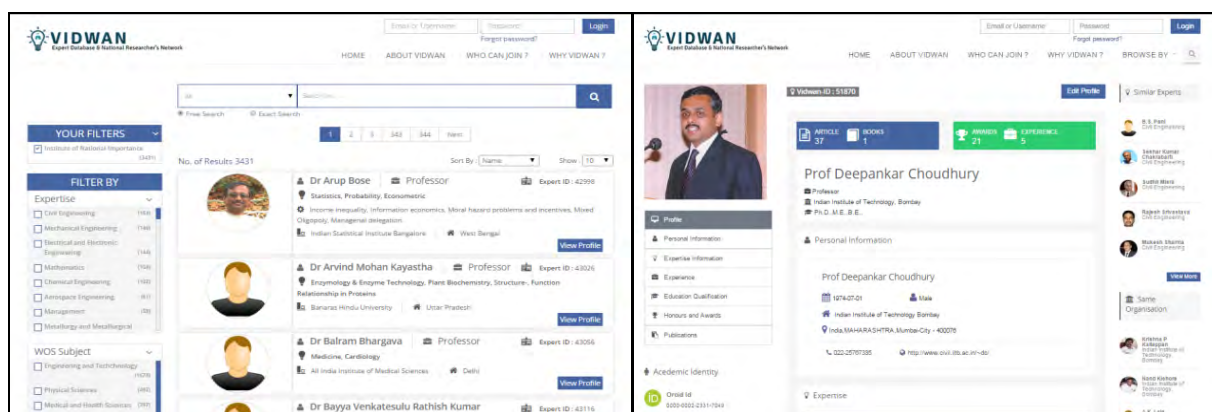
Fig. 11: New VIDWAN Interface with Faceted Search and Responsive Profile Display

Technologies: PHP, CodeIgniter Framework, Solr , MYSQL 5.6.11

3.3. VIVO: Semantic Interface

Kannan P, Scientist C (LS)

Mrs. Hetal Oza, Sr. Project Officer (CS)

The ultimate aim of this project is to populate the expert profiles in the next generation open-linked data format with VIVO: a semantic based expert profile management system. The Centre has developed beta version of VIDWAN using customized VIVO as shown in Figure 12. The interface has the facility to import publications from the respective academic identities of Scientists and the system generates co-author network and map of science network based on the publications. The end user can view the area of expertise of on organisation or the faculty/scientists through graphical representation.
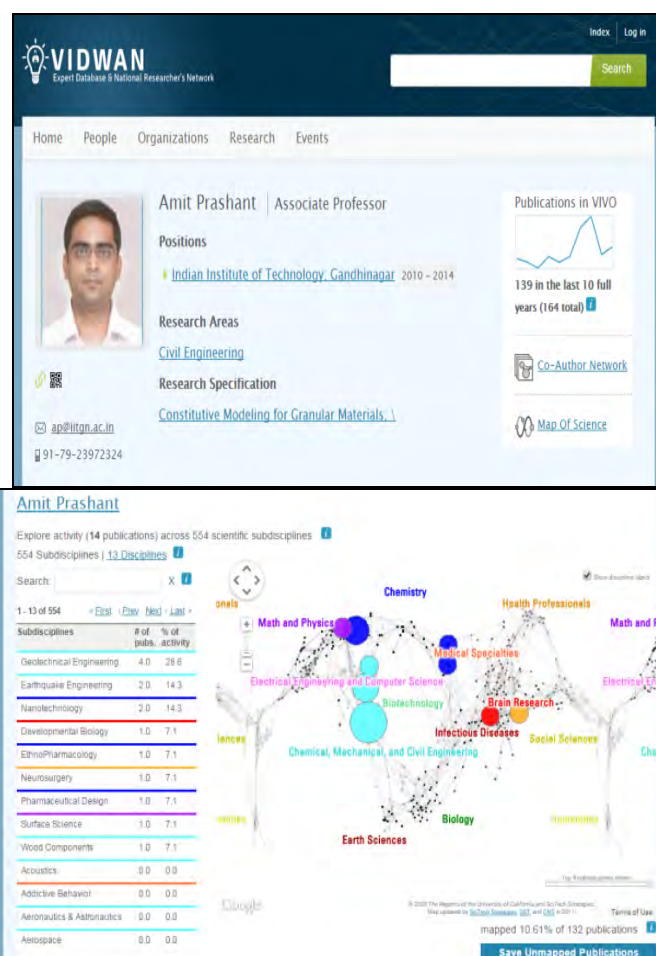
Fig. 12: VIDWAN Profile using VIVO with Map of Science Network

Technologies: Java using Spring 1.2 and FreeMaker, MySQL 5.6, Apache Tomcat 7

4. Research Projects Database (http://www.inflibnet.ac.in/researchproject/)

Gaurav Prakash, Scientist B (CS)

Mohit Kumar, STA (CS)

Alpa Acharya, Project Associate (LS)

The Research Project Database provides details of completed and ongoing projects carried out by faculty members working in universities and institutions across the country. As on 31st March 2015, 208 records were added in the database which has increased the total records in the database upto 15,265. The Centre gets project details along with the project reports in print/digital formats from the project investigators of Minor Research Projects (MRP) funded by the UGC. The softcopy and print copy of the project reports are available at the INFLIBNET Centre for walk-in users. Project Investigators of the UGC funded Minor Research Projects (MRP) were requested to submit softcopies and print copies of their project reports. Project Investigators, whose project reports were received, are acknowledged and their project details were added into the database available at (http://www.inflibnet.ac.in/researchproject/).

5.   SOUL 2.0 (http://www.inflibnet.ac.in/soul/)

Yatrik Patel, Scientist D (CS)

Divyakant Vaghela, Scientist B (CS)

Swapnil Patel, Scientist B (CS)

Bhargavi Kadiya, Project Officer (CS)

The SOUL 2.0 (Software for University Libraries) is state-of-the-art integrated library management software designed and developed by the INFLIBNET Centre based on requirements of colleges, universities and other academic libraries. It is user-friendly software developed to work under client-server environment. The software is compliant to international standards for bibliographic formats and circulation protocols. After a comprehensive study, discussions and deliberations with the senior professionals of the country, the software was designed to automate all house-keeping operations in a library. The software is suitable for the academic libraries as well as for all kinds of other libraries. SOUL 2.0 is compliant to international standards such as MARC 21 for bibliographic format, Unicode based Universal Character Sets for multilingual bibliographic records and NCIP 2.0 and SIP 2 based protocols for RFID, electronic surveillance and control.

The SOUL 2.0 was released in January 2009 and was well received by the academic libraries in India. During the year under report, several new features were added to SOUL 2.0 as well as several minor enhancements were done in reporting and other functionalities. New updates of the software are made available through the SOUL 2.0 website at no additional cost to existing users. The software was supplied to 3,024 institutions across the country as on 31st March, 2015. SOUL has adopted by Directorate of Libraries for their all public libraries as well as Department of Technical Education. State Governments of Madhya Pradesh, Haryana and Andhra Pradesh have fully automated their libraries using SOUL Software.

Fig. 13: Website for SOUL 2.0

A separate website shown in Figure 13 is maintained that provides detailed information about SOUL 2.0 along with the updates of software. During the period under report, More than 5 online as well as

offline updates have been provided to the user community as per changes required in SOUL 2.0 like bug solution, general feature implementation, etc.

Technologies: Visual Studio.Net, Microsoft SQL Server 2005, Microsoft Server Platform

5.1. Customization of SOUL 2.0, Data Conversion and Transfer

Yatrik Patel, Scientist D (CS)
Divyakant Vaghela, Scientist B (CS)
Swapnil Patel, Scientist B (CS)
Seema Chavda, Project Officer (LS)
Mayur Gohel, Project Associate (CS) (SOUL Support)

The Centre has introduced scheme for customization of the SOUL 2.0 software on payment basis as per the requirement of libraries. Under this scheme, SOUL 2.0 can be customized according to the requirements of a library. The Centre has customized SOUL software for many institutes including major universities. Many new customizations like integration of SMS gateway for alert services through SOUL 2.0 software and enhancement of RFID interfaces was done during the period.

Apart from this, the Centre is also converting client's existing data (from any format) to SOUL 2.0 compatible format on payment basis. During the year under report, the Centre has converted data from different format i.e. MS Excel, MS Access, MS SQL, PostgreSQL, ISO/LibSys, etc. to SOUL 2.0 compatible format. The Centre has converted data of Staff Library (Parliament, New Delhi) and IIAS (Shimla, HP) which was exported from LibSys. More than 3.50 lakh bibliographic records from 20 different institutes were processed and converted into SOUL 2.0 compatible format. The Centre also offers data conversion service to new users of SOUL, free of cost, if data volume is less than 10,000 records.

Technologies: Visual Studio.Net, Microsoft SQL Server 2005, Microsoft Server Platform

5.2. SOUL-Web Edition

Yatrik Patel, Scientist D (CS)
Divyakant Vaghela, Scientist B (CS)
Swapnil Patel, Scientist B (CS)
Nirav Rana, SOUL Technical Assistant (CS)

The Centre has already started development of web-based version of SOUL based on the requirement collected from user community. The web edition of SOUL would be platform independent that would run on any operating system (i.e. Linux, Windows). Any browser could be used as client so that user can work on any device independently e.g. desktop, laptop, mobile, tablet, etc. Moreover, this software could be hosted on cloud platform. SOUL (Web edition) is based

on Representational State Transfer (REST) protocol which relies on a stateless, client-server, cacheable communications protocol and in virtually all cases, the HTTP protocol is used. Web-based SOUL can be configured in any language for performing housekeeping operations. During the period under report, REST based services and interfaces (alpha) for Administration, Acquisition & Circulation modules have been completed whereas development work for other modules is in progress.

Technologies: Java, JSP, MySQL, REST protocol (JAX-RS), apache tomcat

5.3. SOUL New Version (For Windows 7 and above)

Yatrik Patel, Scientist D (CS)
Divyakant Vaghela, Scientist B (CS)
Swapnil Patel, Scientist B (CS)
Bhargavi Kadiya, Project Officer (CS)

The Centre has started migrating SOUL software on latest technologies. New version of SOUL for Windows 7 and above would be compatible with Microsoft.Net Framework 4.5 and Microsoft SQL server 2012 or later version. The software has the state-of-the-art Graphical User Interface wherein user can create or choose theme for his/her account. Users would be able to change the font size and other parameters as per their requirement for better visual and performance experience. The new version would have built-in facility of sending SMS/email for each circulation transactions along with several enhancements. This will be used as responsive page. As such, it will be compatible with touch screen laptops/tablets. During the period under report, interfaces for Administration, Circulation and Acquisition module have been developed. Development work for remaining modules and reports are in progress.

Technologies: Microsoft Visual Studio 2015, WPF, MS SQL 2014, Microsoft Platform

### 5.4. SOUL Software sold and Upgraded for Existing Users
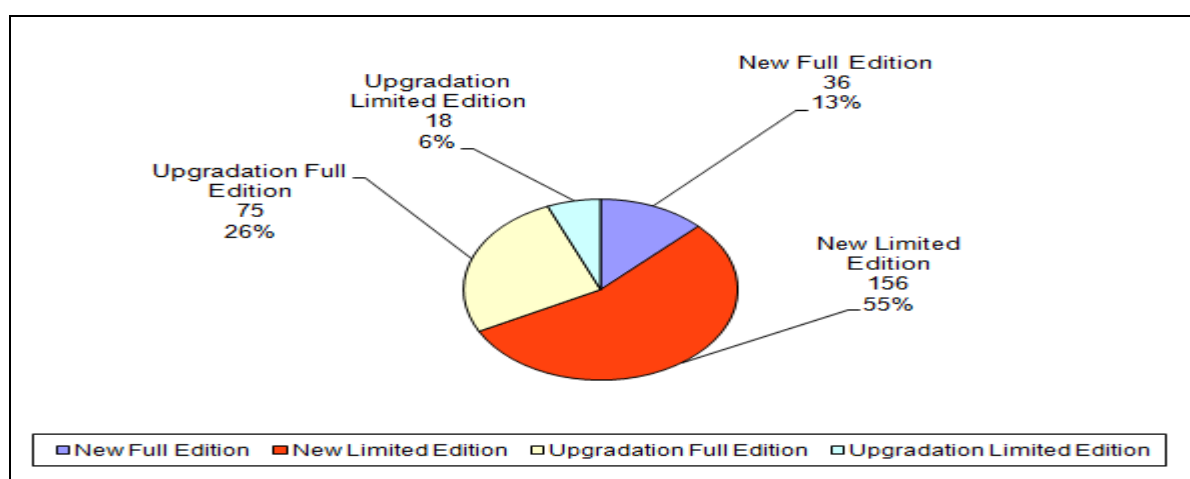
Fig. 14: SOUL 2.0 Software Sold and Upgraded for Existing Users

As depicted in Figure 14, a total number of 285 copies of SOUL Software were sold during the year under report including 192 copies that were sold out to new users and 93 copies that were offered free-of-cost to the users of SOUL 1.0. These 174 copies of SOUL Software include 156 copies of Limited Edition (including 18 copies given free) and 111 copies of Full Edition (including 75 copies given free).

5.5. SOUL Support Services

5.5.1. SOUL Support Cell at INFLIBNET Centre

SOUL Support Cell is a joint activity of Software Development Group & Human Resource Development Group. The SOUL Support Cell helps in handling queries and troubleshooting pertaining to SOUL software, its installation and usage for a user base of 3,024 across the country as per the details given in Appendix VII. The SOUL Support Cell coordinates with the SOUL users and SOUL developers for resolving queries regarding SOUL software and customization issues raised by SOUL users. The SOUL Support Cell consists of staff members from library and computer science background. The tools used for handling queries are mentioned below and depicted in Figure 15:
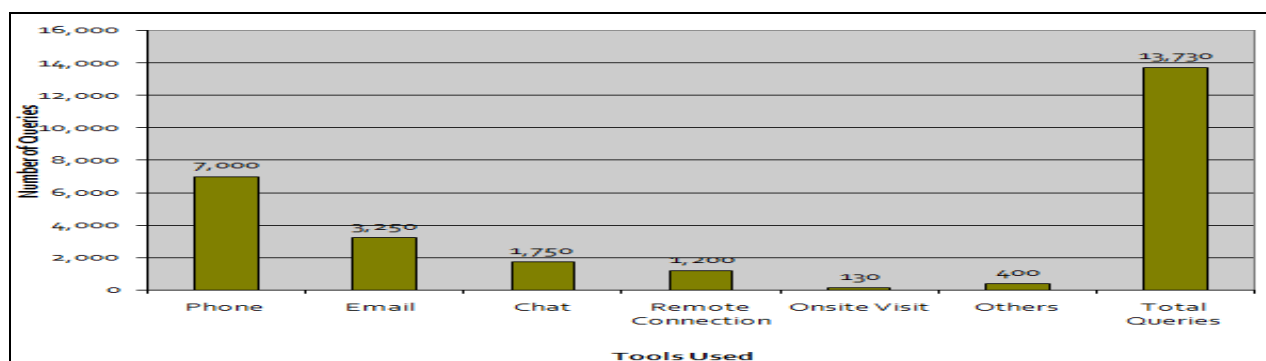

Fig. 15: SOUL Query Handled by SOUL Technical Assistants

Telephone Helpline: The Centre has a dedicated telephone line (079-23268300) for handling queries from SOUL users.

Instant Messaging: The Centre has created a Google email ID (soulhelp0007@gmail.com) to provide support to SOUL users through Gmail and Google Talk.

INFLIBNET Chat: Besides, Google Talk and email, users can also log on to http://www.inflibnet.ac.in/chat to chat and interact with SOUL Support Staff in real time.

Remote Connection: SOUL Support Cell uses the software such as Teamviewer, ShowMyPC, etc. to remotely connect the User's SOUL server to view and solve the problem in real time. This method is

used for fixing the problem when all other methods of solving the problems do not provide desired result.

Onsite Visit: Besides all above methods of solving queries, SOUL Support staff also visits the Institutes
of SOUL users in case every other method could not resolve the problem and also if user wants SOUL Technicians to install and upgrade the SOUL at their Institute.

FAQs: FAQs (Frequently Asked Questions) were developed based on prolonged experience of SOUL Technicians. FAQs are written with screenshot and step-wise solution to the queries that are being asked frequently. (www.inflibnet.ac.in/soul/faq.htm)

SQM: The Centre has developed new software called "Soul Query Management (SQM)" that helps to keep track of problems and queries from all active user of SOUL Software. This software helps to serve the users more efficiently by keeping record of the queries, its status and solution offered, which can also help to solve queries from other users.

Documentation and Updates: Users can download flow chart for every SOUL 2.0 module and e-book version of User Manual to learn the operations on their own from the INFLIBNET Centre's website. User can also download SOUL 2.0 Demo Version (up to 500 entries) and can practice on SOUL 2.0. Besides, minor updates of SOUL 2.0 can also be downloaded from the website free-of-cost which facilitates users to keep their SOUL2.0 software updated.

5.5.2. SOUL Regional Support Services

The Centre has appointed six SOUL Coordinators in different geographical regions of the country to coordinate the activities of SOUL promotion and maintance. Each SOUL Coordinator employs two to three technical assistants so as to provide proactive support to the SOUL users in their respective regions. Besides, the INFLIBNET Centre coordinates activity of maintenance and promotion of SOUL Software in the state of Gujarat and Rajasthan with help of five Soul Technical Assistants. SOUL Coordinators are responsible for providing maintenance support to the existing users as well as for promoting the software to the new users. Names and contact details of the SOUL coordinators are given below in Table 6.

Name	Address/Phone No. / Email/ State
Prof. C. P. Vashishth	**Delhi, Uttaranchal & UP**
	28-B, Pocket 'A' MIG Flat Ashok Vihar, Phase III Delhi – 110 052 Ph. No. : 011-25774507 (O) 011-27112721 (R) Email : cpv_36@yahoo.co.in
Dr. Sanjay Singh	**North Eastern Region**
	Dept of Library and Information Science Guahati University, Guwahati- 781014, Assam Mob. : 09435040402 Email: sksgu1@gmail.com
Dr. Dharamraj Kalyanrao Veer	**Maharashtra & Goa**
	University Librarian Dr. Babasaheb Ambedkar Marathwada University Aurangabad University Campus, Aurangabad – 431004, Maharashtra Mob.: 09423958150 Email: dk.veer@rediffmail.com
Mr. Rakesh Kumar Khare	**M.P. & Chhattisgarh**
	Govt. M.L.B. Girls PG (Auto) College Bhopal- 462002, Madhya Pradesh Mob. : 099265 35452 Email: orakesh16@yahoo.co.in
Mr. J. Laxma Reddy	**A.P., Karnataka, Pondicherry and Kerala**
	Lecturer in Library Science Nagarjuna Government College (A) Nalagonda– 508 001, Andhra Pradesh Mob. : 099081 15333 Email: clicngc@gmail.com
Mrs. Nalini A Raja	**Maharashtra and Goa**
	302, Hari-Kripa, L.T.Road, Borivli (W) Mumbai - 400 092, Maharashtra Mob.:09920790757 E-mail:nalini99@gmail.com
Mr. H G Hosamani	**Gujarat and Rajasthan**
	Scientist C (LS) And his Team of the SOUL Support Cell INFLIBNET Centre Infocity, Gandhinagar -382007, Gujarat Ph. No. : 079-23268300 E-mail: soulhelp0007@gmail.com

Table 6: Names of SOUL Coordinators with their Contact Address

6.   Human Resource Development & Consultancy

H G Hosamani, Scientist C (LS)
Hema Cholin, STO (LS)
All Technical Staff Members

One of the important objectives of the Centre is to impart training in the use of ICT to library and information science professionals working in university and college libraries. So far, 619 programmes include annual conventions, training programmes, workshops and seminars focusing on the library automation, networking, e-resource awareness, theses repositories, institutional repositories, etc. have been conducted benefiting 49,660 participants. INFLIBNET Regional Training Programmes for Library Automation (IRTPLA) and User Awareness Programmes were conducted across the country in collaboration with the universities and colleges. National and International Conventions called PLANNER in North-eastern regions and CALIBER in various states of India are being organized bi-annually as part of the human resource development activities. The Centre has also conducted a total no. of 118 Training Programmes on SOUL Installation and Operations for Libraries so far. Brief reports on every training programme organised during the period under report is given in Part III National Conference, Workshops, Seminars and Training Programme of the report. The Table 7 given below provides no. of human resources development programmes conducted across the country and no. of participants who benefitted from these programmes during the year under report.

Sl. No.	Name of the Programme	Programmes	Total Participants
1	CALIBER	1	200
2	PLANNER	1	185
3	IRTPLA	3	115
4	Onsite / In-House /Regional Training Programme on SOUL 2.0	2	37
5	SOUL 2.0 Training Programme at INFLIBNET Centre	6	120
6	Special Training Programme and National Workshops	11	389
7	Attachment Training Programme	1	1
8	Awareness Programme on E-Resource under UGC-Infonet Digital Library Consortium and N-LIST	7	1178
9	Regional Training and Awareness Programme on J-GatePlus@UGC-Infonet	4	197
10	Awareness Programme on Shodhganga	10	2074
11	E-Content Development under e-PG Pathshala	8	101
12	JSTOR India User's Forum	3	325
13	UGC-Infonet Digital Library Consortium University Forum	1	40
	Total	**58**	**4,962**

Table 7: Conferences/Training programmes/ Workshops/Seminars conducted by INFLIBNET Centre

7. Consortia-based Subscription to E-resources

The INFLIBNET Centre has set-up two separate consortia, namely UGC-Infonet Digital Library Consortium and its college component, "National Library and Information Services infrastructure for Scholarly Contents" (N-LIST) to extend access to e-resources to universities and colleges respectively. Two separate consortia were established not only to cater to the diverse needs of two sets of institutions, namely universities and colleges, but also to satisfy the requirements of different economic models. A brief description of the two consortia is given below.

7.1. UGC-Infonet Digital Library Consortium (http://www.inflibnet.ac.in/econ/)

Jagdish Arora, Director
Ashok Kumar Rai, Scientist D (CS)
Kruti Trivedi, Scientist B (LS)
Dinesh Ranjan Pradhan, Scientist B (LS)
Saroja Kumar Panda, STA (LS)

The UGC-Infonet Digital Library Consortium was launched by Dr. A. P. J. Abdul Kalam, the President of India during December 2003. The UGC-Infonet Digital Library Consortium provides current as well as archival access to more than 8,500+ core and peer-reviewed journals and 11 bibliographic databases from 28 publishers including commercial publishers, scholarly societies, university presses and aggregators in different disciplines. The programme was implemented in a phased manner. In the first phase that began in 2004, access to e-resources was provided to 50 universities who had Internet connectivity under the UGC-Infonet Connectivity programme. In the second phase, 50 more universities were added to the programme in the year 2005 as additional universities got Internet connectivity through UGC-Infonet Connectivity programme. So far, 212 member institutions including 14 National Law Schools/ Universities and 5 IUCs of the UGC, are being provided differential access to subscribed e-resources. These e-resources cover almost all subject disciplines including arts, humanities, social sciences, physical sciences, chemical sciences, life sciences, computer sciences, mathematics and statistics, etc. The programme is wholly funded by the UGC and executed by the INFLIBNET Centre. The Centre has also initiated Inter-Library Loan (ILL) through J-Gate Plus. The J-Gate Plus provides article-level access to all articles published in journals subscribed by the UGC-Infonet Digital Library Consortium as well as content in journals subscribed by 26 university libraries designated as ILL Centres of the INFLIBNET Centre.

The Consortium has also launched its "Associate Membership Programme" wherein private universities and other research organizations are welcomed to join the Consortium for selected e-resources.

A separate website is maintained for the UGC-Infonet Digital Library Consortium as shown in Figure 16.

Fig. 16: Website of the UGC-Infonet Digital Library Consortium

7.1.1. Objectives

The major aims and objectives of the UGC-Infonet Digital Library Consortium are as follows:

- to subscribe electronic resources for the universities at a highly discounted rates of subscription and at the best terms and conditions;
- to extend the benefit of consortium-based subscription to all eligible Indian universities and colleges either as core members or as associate members;
- to impart training to the users, librarians, research scholars and faculty members in member institutions on the use of electronic resources with an aim to optimize their usage;
- to promote increased interactions amongst the member libraries;
- to catalyse increase in the research productivity of the institutions both in terms of quality and quantity of publications;
- to evaluate the usage of the resources subscribed; and
- to identify new resources that are required to be subscribed under the programme depending on the availability of funds.

7.1.2. Governance of UGC-Infonet Digital Library Consortium

7.1.2.1.1. National Steering Committee (NSC)

The UGC-INFONET Digital Library Consortium is operated by the Centre under the guidance of a National Steering Committee (NSC) constituted by the UGC. The NSC is responsible for policy issues of the Consortium. The Committee decides on e-resources to be subscribed from various publishers and its numbers along with beneficiary universities. The NSC was also responsible for negotiating the rates of subscription of e-resources in its formative years. The current composition of the NSC is given in Appendix VIII.

7.1.2.2. Negotiation Committee

The Negotiation Committee is constituted as per the UGC Guidelines on UGC-Infonet Digital Library Consortium for negotiating the rates of subscription of e-resources. The current composition of the Negotiation Committee is given in the Appendix IX.

7.1.3. Current Status

The Consortium offers access to more than 8,500 peer reviewed electronic journals and 11 bibliographic databases from 28 major publishers and aggregators. The access of the journals includes current issues as well as 10 years back files (from 1997 onwards in most cases) and from volume 1 onwards in few cases (American Chemical Society, American Physical Society, Institute of Physics and JSTOR). The service is offered to 192 universities and 14 national law schools/universities as core members under different phases as per the details given in Appendix X. The details of subscribed e-resources are given in Appendix XI.

7.1.3.1. Associate Membership Programme

The resources subscribed under the UGC-Infonet Digital Library Consortium are made available on subscription basis to private universities and other institutions under the "Associate Membership Programme". Under the programme, private universities and other researcher institutions can enrol themselves as "Associate member" and subscribe to resources of their choice available under the Consortium. The rates of subscription are same as applicable to Consortium for its core members. Associate members are charged an annual membership of Rs. 5,000.00. The subscription of e-resources is subject to the approval of respective publishers. As on 31st March 2015, 213 universities and other institutions have enrolled as associate members and are subscribing to different sets of resources.

7.1.4. Usage of E-Resources

Most publishers maintain detailed usage statistics for resources made accessible to universities by them. The publishers provide username and password to subscribing institutions for accessing the usage statistics for their resources for monitoring purpose. Most publishers provide COUNTER compliant usage statistics, which is an International standard for comparison of usage available through various platforms. The usage statistics from various publishers' website are downloaded on regular intervals and made accessible to the member universities on INFLIBNET website through an interface called e-RAMS (Electronic Resource Access Management System). Universities with low usage of e-resources are requested to optimize their usage.

Table 8 reflects the total full-text downloads for the e-journals subscribed under the Consortium. The usage for Elsevier ScienceDirect is highest followed by JSTOR and Springer.

Sl. No.	Publishers	Total Downloads
1	ACS	18,97,901
2	AIP	2,30,976
3	APS	1,95,976
4	AR	83,209
5	Wiley	16,36,450
6	CUP	93,431
7	Elsevier	65,46,119
8	Emerald	2,05,593
9	IOP	2,53,762
10	JSTOR	28,39,283
11	Nature	1,74,286
12	OUP	4,52,896
13	PM	1,20,693
14	Portland	44,542
15	RSC	9,76,951
16	SpringerLink	22,04,022
17	TandF	7,64,737
18	Pr. Euclid	4,083
19	SIAM	13,745
E-journals		**187,38,655**

Table 8: Publisher wise Usage for the year 2014

The year-wise total number of full-text downloads is given below in Figure 17. The Figure clearly shows that there is an overall increase in the number of downloads over the period of 2010 to 2014.
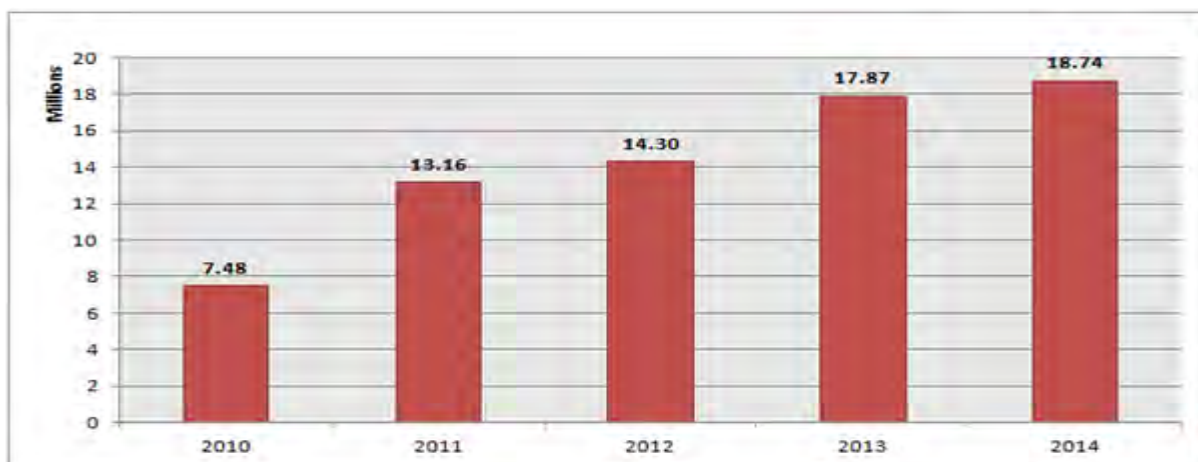
Fig. 17: Year-wise Total Full-Text Downloads (2010 - 2014)

The usage statistics of bibliographic databases measured in terms of searches is given below in Table 9 and Figure 18. The usage statistics for SciFinder is the highest followed by MathSciNet and Web of Science.

Sl. No.	Publishers	Total Searches
1	JGate Plus	2,37,232
2	MathSciNet	6,44,071
3	SciFinder Scholar	7,17,075
4	Web of Science	4,57,245
Databases		20,55,623

Table 9: Publisher wise Usage for Databases for the year 2014
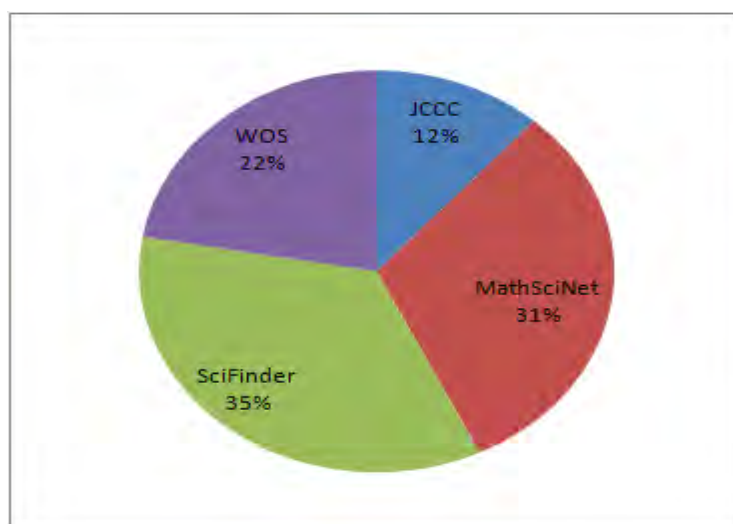
Fig. 18: Usage for Databases for the Year 2014

7.1.5. Economics of UGC-Infonet Digital Library Consortium

7.1.5.1. Annual Increase in Rates of Subscription

In general, there is 10% to 15% annual increase in subscription rate of resources in print media. However, Consortium has negotiated the rates of increase in price of the e-resources and fixed the price cap within 3-5% annually.

7.1.5.2. Intensity of Usage: Cost Recovery

"Cost Recovery" and "Average cost of article per download" can be used effectively to judge cost effectiveness of an e-resource. These two factors reflect the intensity and frequency of usage of e-resources by member institutions in a Consortium.

The cost recovery factor is calculated by multiplying number of articles downloaded with the cost of a single article, if it is purchased directly from the publishers in the "pay-per-view model" or brought through ILL from any document delivery service. According to ALPSP survey, 78% of publishers surveyed offer pay-per-view or individual article purchase options. In the pay-per-view model, the cost of articles varies from publisher to publisher and average cost is $30 per article. Assuming that if the electronic resources were not available through the Consortium, articles downloaded from these resources by the member institutions would have been sourced on inter-library loan / document delivery services at a cost of US $ 15.00 per article (Average cost of article taken from a study conducted by the American Research Libraries).

Based on the no. of downloads from every resource, total amount of Rs. 13,693.82 millions has been recovered as against the total cost incurred of Rs. 1,472.89 millions with Rs. 12,220.93 millions as the cost of articles downloaded in excess as shown in Figure 19.

Fig. 19: Total Cost Recovery for the year 2014

The total cost recovery factor is calculated for all other resources except for EPW, ISID, HeinOnline, Manupatra and Westlaw for which standard usage statistics is not available. The cost recovery factor for each resource is shown in Figure 20, that reflects that the cost recovery factor for Elsevier is highest followed by JSTOR & Springer.
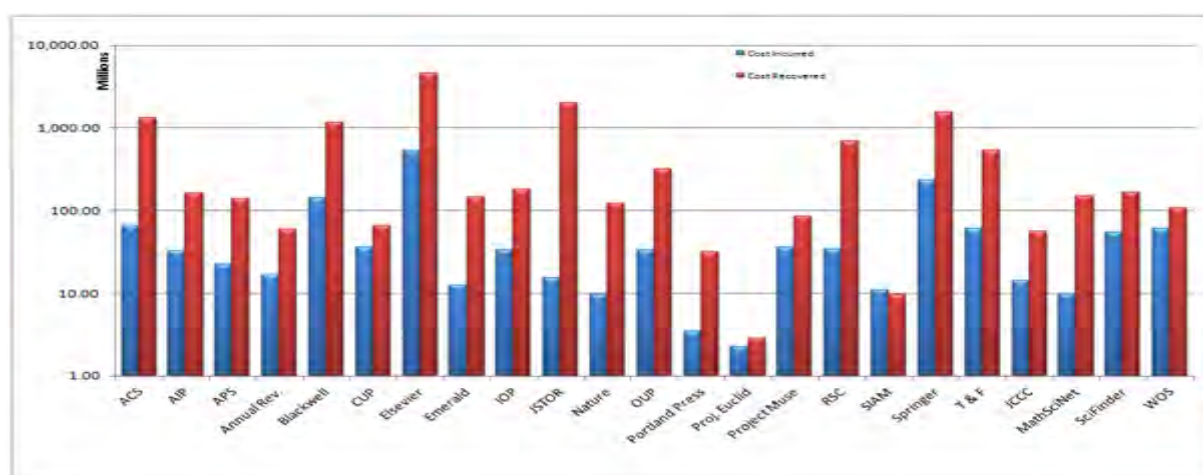
Fig. 20: Publisher-wise Cost Recovery during 2014

7.1.5.3. Average Cost of an Article / Bibliographic Record

The average cost per download represents average cost of each access event to a full-text article and is calculated by dividing subscription cost of a resource by the number of articles downloaded.

The Table 10 and Figure 21, given below, provide the cost per download of an article. The cost per download is lowest for JSTOR (US$ 0.09) and highest for SIAM (US $12.93), whereas the Consortium average is US$1.17.

Sl. No.	E-Resource	Average cost per Download (in US$)
1.	SIAM	12.93
2.	Euclid	8.99
3.	CUP	6.36
4.	Muse	4.88
5.	AR	3.24
6.	AIP	2.31
7.	IOP	2.15
8.	APS	1.89
9.	Springer	1.72
10.	Blackwell	1.42
11.	Elsevier	1.34
12.	T&F	1.31
13.	Portland	1.30
14.	OUP	1.22
15.	Emerald	1.01
16.	Nature	0.91
17.	RSC	0.57
18.	ACS	0.56
19.	JSTOR	0.09
	Consortium Average	**1.17**

Table 10: Publisher-wise Average Cost of an Article

Table 11 given below provides the average cost of a search in bibliographic databases.

Sl. No.	Bibliographic Database	Average cost per Search (in US$)
1.	WoS	2.19
2.	SciFinder Scholar	1.26
3.	J-Gate Plus	1.00
4.	MathSciNet (AMS)	0.26

Table 11: Average Cost of Bibliographic Database
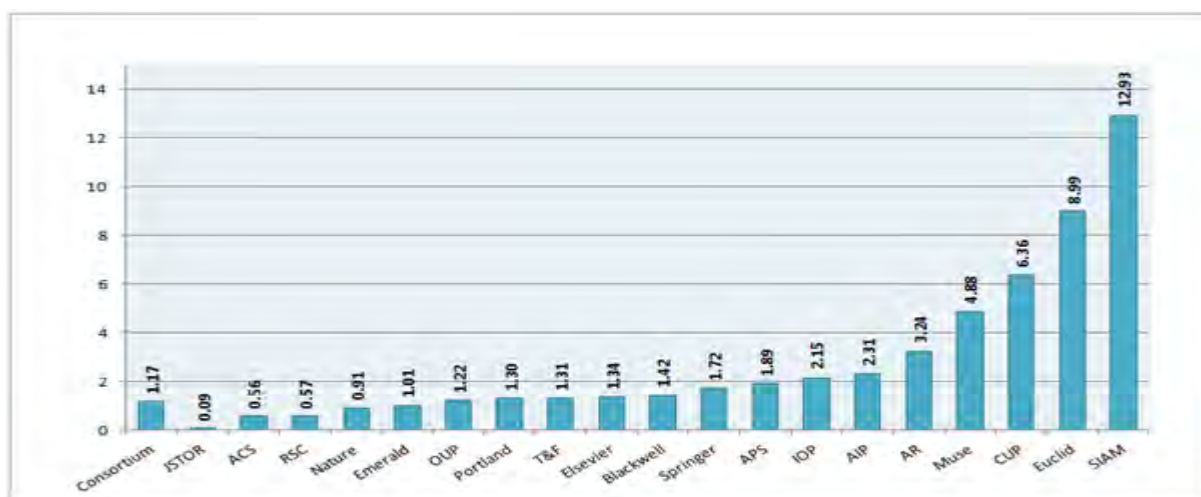
Fig. 21: Average Cost of an Article (in US$) for Consortium for the Year 2014

7.1.6. Document Delivery through J-Gate Plus@UGC-INFONET

The J-Gate Plus@UGC-Infonet is virtual library of journals literature created as a customized e-journal articles access gateway and database solution for UGC-Infonet Digital Library Consortium. It provides article level access to e-journals subscribed under the Consortium as well as e-journals subscribed by 26 university libraries designated as ILL Centres of the INFLIBNET Centre. It acts as a gateway to search 19,500+ journals including 5,506 open access journals, 8,500+ journals subscribed by the Consortium and 4,800+ journals subscribed by the universities designated as ILL Centres. The J-Gate Plus interface facilitates triggering of e-mail request for articles that are not accessible online and are available only in universities designated as ILL Centres.

During the period under report, 997 ILL requests were received from member universities to the INFLIBNET Centre out of which 904 requests were fulfilled. Details of numbers of article requests received from member universities are given below in Table 12:

Sl. No.	University Name	$DDR-DU	*DDR-F	+DDR-P	#DDR-UF	Total
1	Annamalai University Library	3	169	0	7	179
2	Dayalbagh Educational Institute	0	40	0	45	85
3	Guru Jambheshwar University of Science & Technology	3	69	0	2	74
4	Mohanlal Sukhadia University	2	66	0	0	68
5	Swami Ramanand Teerth Marathwada University	1	45	0	0	46
6	Acharya Nagarjuna University	0	40	0	0	40
7	Tata Institute of Social Sciences	0	40	0	0	40

8	Periyar University	1	36	0	0	37
9	Karnatak University	1	34	0	0	35
10	North Maharashtra University	1	31	0	0	32
11	Kannur University	4	21	0	5	30
12	Babasaheb Bhimrao Ambedkar University	3	19	0	1	23
13	Jiwaji University Gwalior	1	16	0	1	18
14	Manonmaniam Sundaranar University	1	17	0	0	18
15	Barkatullah University	0	17	0	0	17
16	Berhampur University	0	15	0	0	15
17	Gitam University	0	14	0	1	15
18	Alagappa University	0	9	0	1	10
19	Central University of Karnataka	0	10	0	0	10
20	Central University of Himachal Pradesh	0	9	0	0	9
21	Others (Remaining 64 Universities)	2	187	0	7	196
	Total Requested	23	904	0	70	997

$DDR-DU: Document Delivery Request-Delay,   ***DDR-F: Document Delivery Request – Fulfilled**
+DDR-P: Document Delivery Request - Pending,   **#DDR-UF: Document Delivery Request – Unfulfilled**

Table 12: Document Delivery Requests made by Different Universities

During the period under report, a total number of 4,639 requests were received by the 26 ILL Centres and by the INFLIBNET from all the member universities, out of which 2,354 were fulfilled as per the details given below in Table 13:

Sl. No.	University	$DDR-DU	*DDR-F	+DDR-P	#DDR-UF	Total	% of Fulfilled
1	Aligarh Muslim University	0	0	10	2	12	0.00
2	Annamalai University	0	42	2	8	52	80.77
3	Assam University	0	0	7	0	7	0.00
4	Banaras Hindu University	0	0	374	0	374	0.00
5	Banasthali University	9	198	0	14	221	89.59
6	Bangalore University	0	0	65	0	65	0.00
7	Birla Institute of Technology and Science	4	72	117	112	305	23.61
8	Calcutta University	0	16	0	452	468	3.42
9	Jadavpur University	0	32	0	44	76	42.11

10	Jawaharlal Nehru University	0	0	181	0	181	0.00
11	Kurukshetra University	0	0	10	0	10	0.00
12	Mangalore University	0	0	4	0	4	0.00
13	North Eastern Hill University	0	0	5	0	5	0.00
14	Panjab University	0	394	36	22	452	87.17
15	Pondicherry University	0	61	12	37	110	55.45
16	Pt. Ravishankar Shukla University	0	0	15	0	15	0.00
17	Punjabi University	0	5	0	6	11	45.45
18	Rashtrasant Tukadoji Maharaj Nagpur University	0	0	0	0	0	0.00
19	Sardar Patel University	0	0	22	0	22	0.00
20	Tata Institute of Social Sciences	3	58	0	21	82	70.73
21	The Maharaja Sayajirao University of Baroda	2	87	2	13	104	83.65
22	University of Delhi	0	21	0	17	38	55.26
23	University of Hyderabad	0	237	0	48	285	83.16
24	University of Madras	0	0	5	0	5	0.00
25	University of Pune	12	222	4	493	731	30.37
26	University of Rajasthan	0	5	0	2	7	71.43
27	INFLIBNET	23	904	0	70	997	90.67
	Total Requested	**53**	**2,354**	**871**	**1,361**	**4,639**	**50.74**

$DDR-DU: Document Delivery Request-Delay,   *DDR-F: Document Delivery Request – Fulfilled
+DDR-P: Document Delivery Request - Pending, #DDR-UF: Document Delivery Request – Unfulfilled

Table 13: Document Delivery Requests Received by 26 ILL Centres and INFLIBNET

Figure 22 depicts comparison between DDR-Fulfilled and total number of DDR received by each ILL Centre.
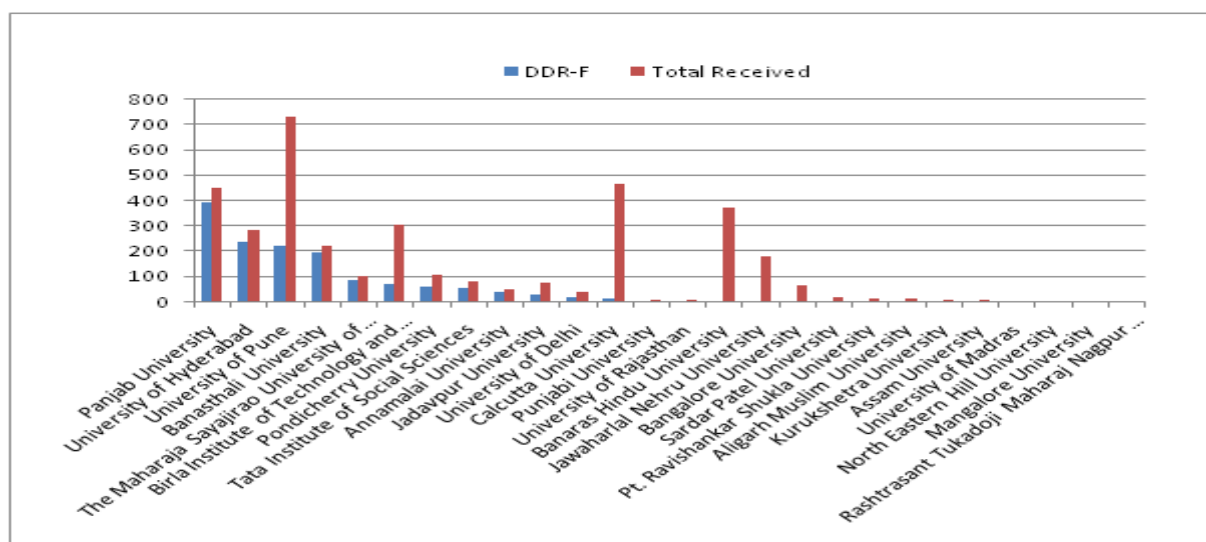
Fig. 22: Document Delivery Requests Received (DDR-R) Vs Full-filled (DDR-F) by 26 ILL Centres

7.2. N-LIST (National Library and Information Services Infrastructure for Scholarly Content) (http://nlist.inflibnet.ac.in/)

Jagdish Arora, Director

Ashok Kumar Rai, Scientist D (CS)

Kruti Trivedi, Scientist B (LS)

Dinesh Pradhan, Scientist B (LS)

Saroja Kumar Panda, STA (LS)

Roma Yogesh Asnani, STA (LS)

Swyam Prakash Rajput, Project Associate (CS)

The Project entitled "National Library and Information Services Infrastructure for Scholarly Content (N-LIST)" graduated to be a regular scheme of the UGC as college component of the UGC-Infonet Digital Library Consortium. Earlier, the project was jointly executed by the UGC-Infonet Digital Library Consortium, INFLIBNET Centre and the INDEST-AICTE Consortium, IIT Delhi with financial support from the Ministry of Human Resource Development under its National Mission on Education through ICT. The N-LIST project, using a highly innovative access model, provides access to 6,328 e-journals and 97,333 e-books to all Govt.-aided as well as non-aided colleges through a proxy server installed at the INFLIBNET Centre. Electronic resources subscribed under N-LIST project covers all relevant areas taught in colleges such as arts & humanities, social sciences, physical and chemical sciences, life sciences, computer sciences, political sciences, library and information science, law, business, mathematics, statistics, etc.

A separate website is maintained for the National Library and Information Services Infrastructure for Scholarly Content (N-LIST) as shown in Figure 23.
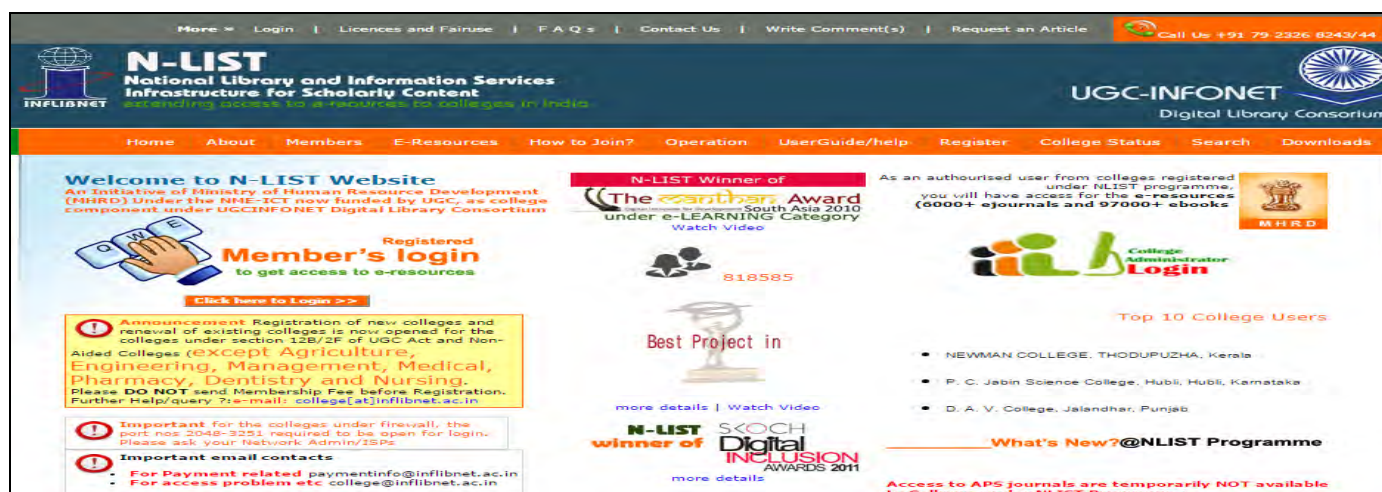
Fig. 23: Website of the National Library and Information Services Infrastructure for Scholarly Content (N-LIST)

7.2.1. Current Status

The N-LIST has registered a total number of 4,501 colleges as on 31st March, 2015 including 4,100 eligible colleges that are already getting access to e-resources subscribed under the N-LIST

programme. Log-in IDs and passwords have been issued to more than 8,08,613 faculty members, students and researchers after obtaining list of authorized users from these 4,100 registered colleges. Group login ID and passwords have also been issued to colleges awaiting list of actual users. Efforts are being made to enrol more colleges through advertisements in newspaper as well as by organizing training and orientation programmes through affiliating universities and regional offices of the UGC.

7.2.2. Increase in Number of Colleges

Figure 24 given below reflects consistent increase in number of colleges who joined the N-LIST Programme during the period January 2011 to March 2015. The number of colleges that have joined the N-LIST Programme has increased from 1,116 in January 2011 to 4,100 by the end of March 2015.
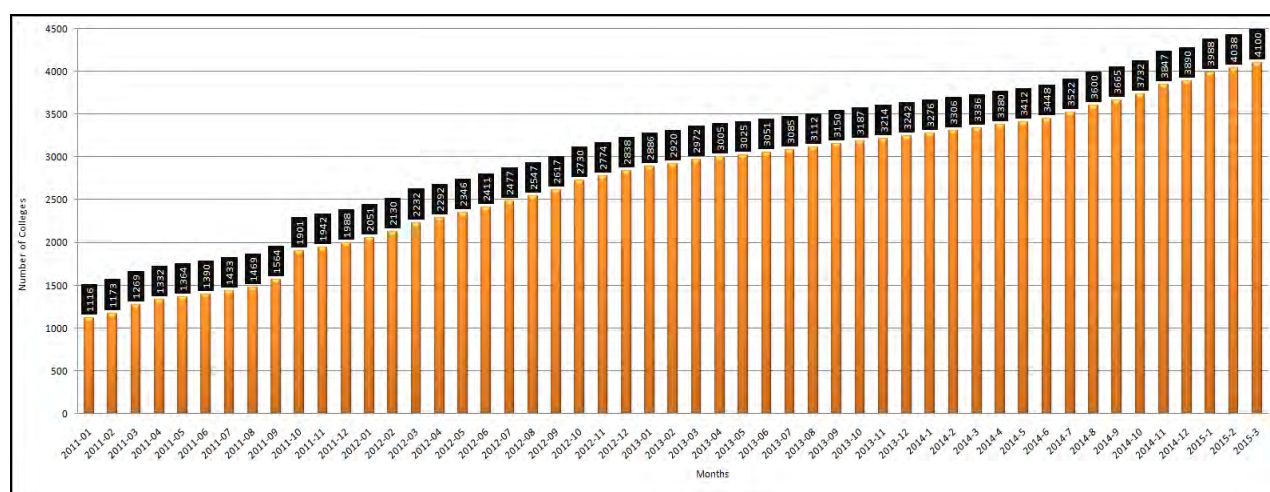
Fig. 24: Increase in Registration of Colleges

7.2.3. Electronic Resources Subscribed under the N-LIST Programme

7.2.3.1. Full-text Electronic Resources

Full-text electronic resources contain complete articles along with their bibliographic details. The N-LIST programme subscribes to full-text e-resources from scholarly societies, commercial publishers and aggregators like American Institute of Physics, American Physical Society, Oxford University Press, Royal Society of Chemistry, Cambridge University Press, H W Wilson, etc. All full-text resources subscribed under the N-LIST programme contain electronic journals as revealed in the Table 14 given below.

Sl. No.	E-resources	Publishing Country	No. of Journals	Back files from
1	American Institute of Physics	USA	18	Ten yrs.
2	American Physical Society	USA	10	Ten yrs.
3	Annual Reviews	USA	33	Ten yrs.
4	Cambridge University Press	UK	224	Ten yrs.

5	Economic and Political Weekly (EPW)	India	1	1966+
6	Indian Journals	India	186	2007+
7	Institute of Physics	UK	46	Vol. 1+
8	JSTOR	USA	2500	Vol. 1+
9	Oxford University Press	UK	206	1996+
10	Royal Society of Chemistry	UK	29	Ten yrs.
11	H. W. Wilson	USA	3,075	1982+
	Total		**6,328**	

Table 14: Full-text Electronic Resources

7.2.3.2. Electronic Books

Electronic books are either subscribed on annual subscription basis as in case of ebrary or are purchased on one-time payment and perpetual access basis as in case of all remaining publishers listed below. Total number of electronic books accessible to colleges under N-LIST programme exceeds 1,19,000 as revealed below in the Table 15.

Sl. No	E-book Name	Available Books	Purchased Books	Access Available
1	E-brary	83,024+	83,024+	83,024+
2	Cambridge Books Online	13,966	1,800	6,000+
3	EBSCO Host-Net Library	4,436	936	4,436
4	Hindustan Book Agency	65	65	65
5	Institute of South East Asian Studies(ISEAS) Books	382	382	382
6	Oxford Scholarship Online	6,577	1,402	1,402
7	Springer eBooks	50,208	2,300	18,000+
8	Taylor & Francis eBooks	40,000+	1,800	4,500+
9	Myilibrary-McGraw Hill	2,50,000	1,124	1,124
10	Sage Publication eBooks	2,700	1,000	1,000
11	Open Access (Net Library)		3,500	
	Total	**4,51,358**	**97,333**	**1,19,433**

Table 15: Electronic Book

7.2.4. Implementation Methodology

E-resources subscribed under the UGC-Infonet Digital Library Consortium are being made accessible to universities on their respective IPs. However, since most of the colleges registered under the N-LIST programme do not have static IP addresses, access to e-resources based on IP filtering cannot be implemented for colleges. Moreover, most of the publishers were reluctant to handle authentication for large number of users from thousands of colleges who had to be given freedom to enrol themselves for the N-LIST Programme at anytime during the year.

As such, the INFLIBNET Centre has implemented EZ-Proxy from OCLC for authenticating registered users. Individual users from colleges can directly access and download articles from journals and chapters from books directly from publisher's website once they are duly authenticated as authorized users through the authentication mechanism deployed at the INFLIBNET Centre.

7.2.5. Cost-effectiveness of the N-LIST Programme

The cost-effectiveness of N-LIST programme can be judged by factors such as number of beneficiary colleges, full-time potential users in these colleges, cost of e-resources subscribed and expenditure on e-resources per college and per potential user. The N-LIST programme is a cost-effective proposition because of large number of colleges with larger number of potential users and potential for growth. These factors are discussed below in detail.

7.2.6. Analysis of Usage

It is important to ensure that the resources offered to the colleges are being used optimally and steps are taken to promote usage of e-resources wherever required. A brief analysis of usage of e-resources by the beneficiary college is given below.

7.2.6.1. Publisher wise Usage of E-journals

Figure 25, given below, shows number of articles downloaded by the users from different publishers during the financial year 2014-2015. It can be observed that JSTOR is highly used resource followed by Indian Journals and Royal Society of Chemistry. The usage of EPW could not be analysed due to lack of usage data from the publishers.
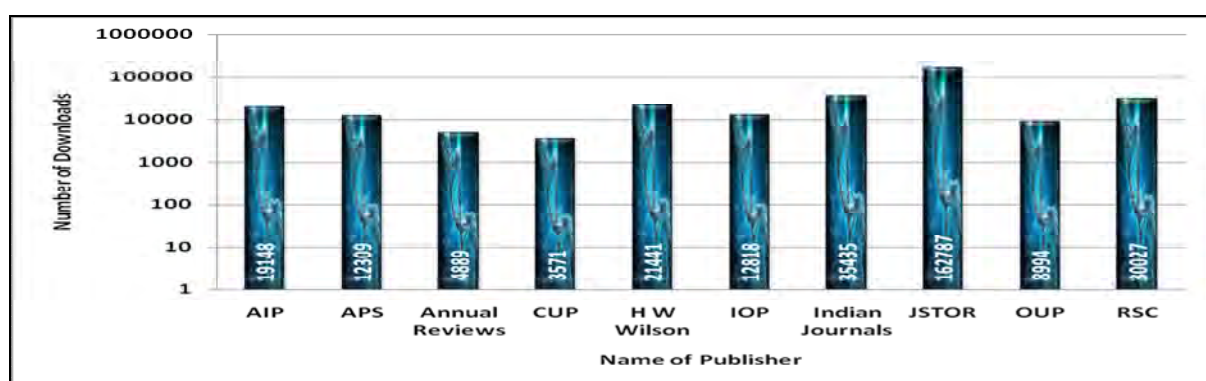
Fig.25: Publisher wise Usage of E-Journals 2014-2015

7.2.6.2. Publisher-wise Usage of E-Books

Figure 26, given below, shows publisher-wise usage of ebooks during the Financial Year 2014 - 2015. It can be observed that Ebrary is highly used resource followed by McGraw Hill-MyiLibrary and Springer e-books.
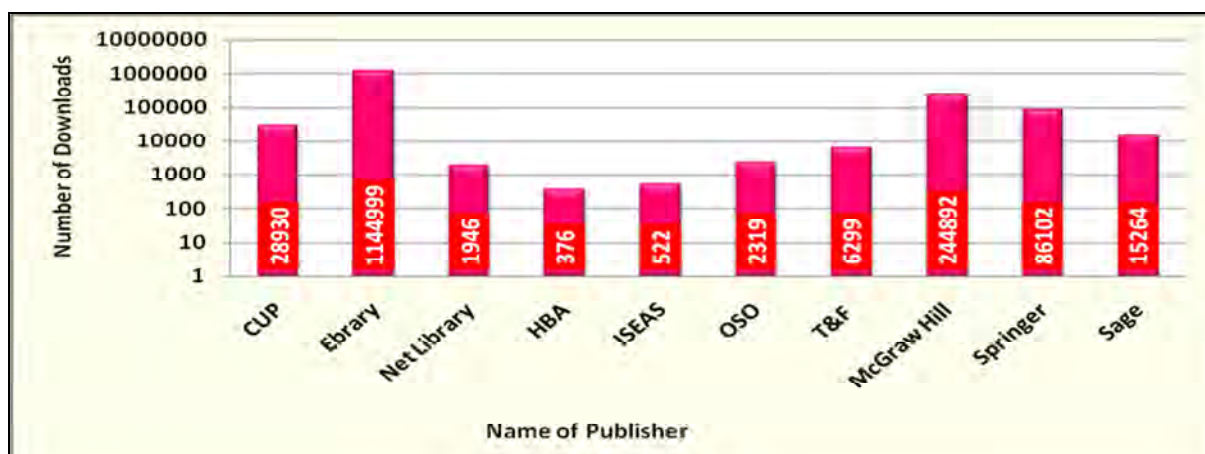
Fig.26: Publisher-wise Usage of E-Books during the Financial Year 2014-2015

7.2.6.3. Month-wise Usage of E-Resources

Figure 27 given below, reflects month wise usage of e-journals and e-books for the period April 2014 to March 2015.
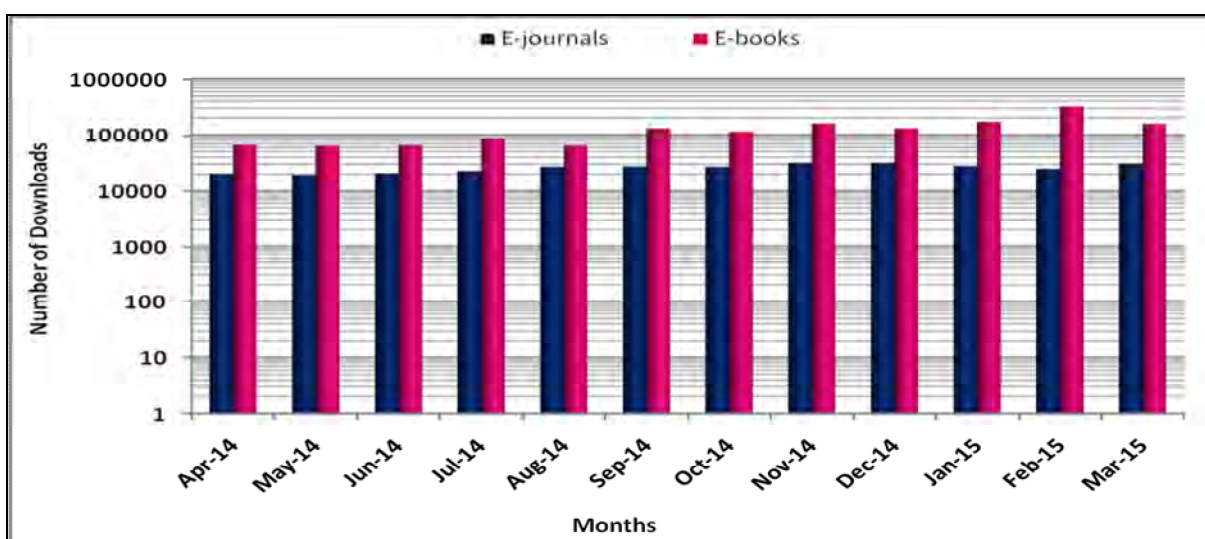
Fig. 27: Month wise Usage of E-resources for the Financial Year 2014-2015

7.2.6.4. Month-wise Unique Visitors

Since the access of e-resources is provided through a proxy server set up at the INFLIBNET Centre, it is difficult to analyse usage of e-resources by a given college. The Centre is using AW Stats, a powerful open source tool that generates statistics from the local proxy server. The Centre has used this tool to analyze log files of N-LIST Proxy Server. Figure 28 given below shows month wise unique visitors to N-LIST resources. The graph shows average 12,856 monthly users from 4,100 member colleges.
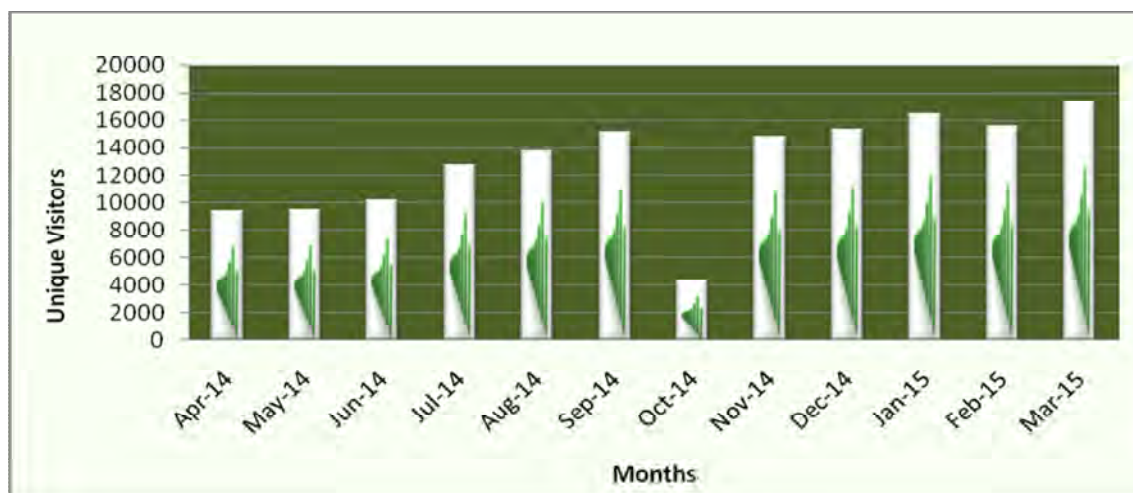
Fig. 28: Month wise Unique Visitors of the N-LIST Programme during Financial Year 2014 –2015

7.2.6.5. Month-wise Pages Viewed

A total number of 71,37,935 pages were viewed by the users in member colleges from the subscribed e-resources. Figure 29 given below depicts month-wise number of pages viewed by the users in member colleges.

Fig. 29: Month-wise Pages Viewed during the Financial Year 2014 -2015

7.2.7. Economics of N-LIST Programme

Cost recovery, cost avoidance and (lower) rates of subscription are factors that determine economic viability and cost-effectiveness of consortia-based subscription to e-resources. These factors are discussed below briefly.

7.2.7.1. Cost Recovery

The recovery of cost incurred on e-resources subscribed through the N-LIST Programme can be judged in terms of intensity of use of resources. The cost recovery is calculated on the presumption

that if the electronic resources were not available through the N-LIST programme, articles downloaded from these resources by the member colleges would have been sourced on inter-library loan or through document delivery services at a cost of US $ 15.00 per article. (Average cost of article taken from a study conducted by the American Research Libraries (ARL). As evident from the Figure 30 given below, the N-LIST Programme has recovered the cost incurred on subscription for all e-resources.

The total cost that has been recovered for the year 2014 amounts to Rs. 101.18 crores as against the total expenditure of Rs. 8.74 crores with Rs. 92.44 crores as the cost of articles downloaded in excess.
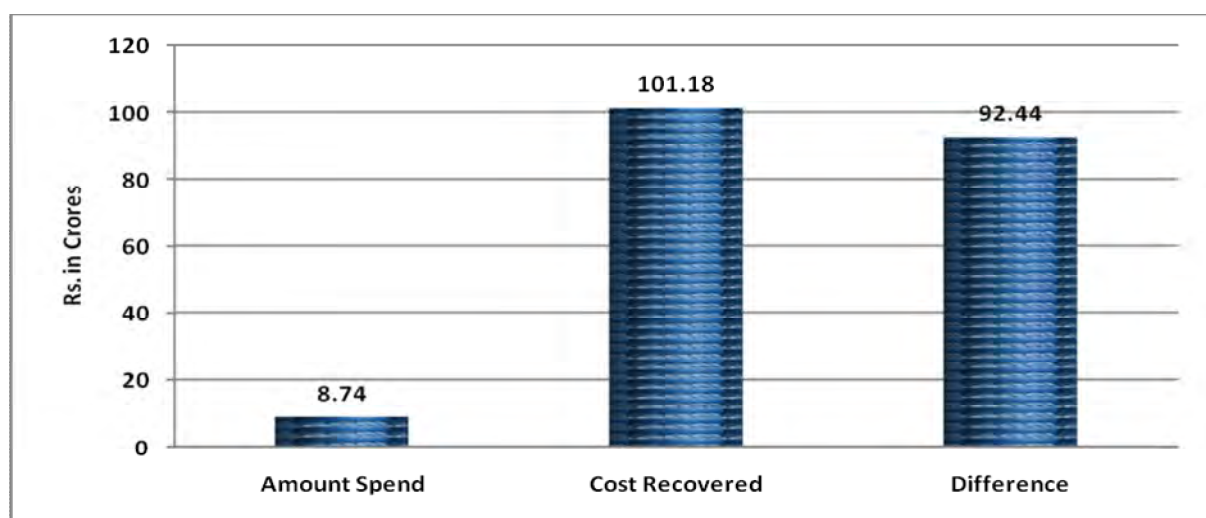
Fig.30: Cost Recovery Factor of e-Journals Subscribed under the N-LIST Programme for 2014

7.2.7.2. Lower Rates of Subscription

The N-LIST programme has used a highly innovative pricing model for subscription to e-resources wherein one subscription (equivalent to one subscription paid for a university in the UGC-Infonet Digital Library Consortium) is paid for a group of 200 colleges given the fact that extending the prevalent pricing models to college would have been highly expensive, unaffordable and impractical for the college component of the UGC- Infonet Digitial Library Consortium. As such, a total number of 20 subscriptions (on prorate basis) were paid for 4,100 colleges during the financial year under report.

7.2.7.3. Cost Avoidance

Cost avoidance is calculated in terms of difference in cost paid by the N-LIST programme for colleges and list price of e-resources including e-journals and e-books. Figure 31 given below shows that there is a notional savings of Rs. 13,892.83 crores considering the fact that the same sets of resources on list price would have cost Rs. 13,908.64 crores as against Rs. 15.81 crores spent under the N-LIST programme for the year 2014.

Fig. 31: Cost Avoidance 2014

7.2.7.4. Annual Increase in Rates of Subscription

Annual increase in rates of subscription is restricted from 0 to 5% as against the usual increase in price of e-resources that varies from 10 to 15% in case of print publication.

7.2.8. Average Cost of E-resources Subscribed under the N-LIST Programme

7.2.8.1. Average Cost of e-Journals per College

The N-LIST programme subscribes to a total number of 6,328 journals for its member colleges. The cost of subscription to e-resources comes down with increase in number of colleges as given below in Table 16. As such, average cost of a single journal per college computes to Rs. 2.73 in the year 2014 when only 3,890 colleges were enrolled for the scheme.

Name of E-resources	No. of Colleges	No. Resources	Price per College per Title in Rs.
AIP-APS	2000	28	220.13
Annual Reviews	3890	33	26.63
CUP	3890	224	14.25
Indian Journals	3890	186	8.04
IoP	2000	46	39.94
JSTOR	3890	2,500	0.54
OUP	3890	206	9.19
RSC	2000	29	96.78
HW Wilson	3890	3,075	0.70
EPW	3890	1	781.49
Total	3890	6328	2.73

Table 16: Average Cost of Journals per College

7.2.8.2. Average Cost of E-books

Most of the e-books under the N-LIST programme is purchased for all existing 3,890 colleges on "one-time purchase and perpetual access basis" except Ebrary which is subscribed on annual subscription basis as given in Table 17 below. Average cost per book per college varies from Rs. 0.07 in case of Ebrary to Rs. 3.62 in case of Hindustan ebooks.

Name of E-resources	No. of Colleges	No. Resources	Price per College per Title in Rs.
E-brary	3890	83,024	0.07
OSO	3890	1,402	1.11
Springer ebook	3890	2,300	3.28
T&F ebook	3890	1,800	2.00
CUP ebook	3890	1,800	0.84
McGraw Hill	3890	1,124	0.88
Hindustan ebook	3890	65	3.62
ISAES ebook	3890	3,82	3.52
Sage ebook	3890	1,000	1.98
Total	**3890**		**2.50**

Table 17: Average Cost of E-books per College per Title

7.2.9. Honours and Awards

The N-LIST Programme was honoured with three awards during the years 2010 and 2011, namely i) Jury Choice Award e-INDIA 2010; ii) The Manthan South Asia Award 2010 in Digital Learning Category for the year 2010; and iii) Skoch Digital Inclusion Awards 2011 in Technology in Education Category.

8. Open Access Initiatives

The current system of scholarly communication inhibits rather than promote access to scholarly information at a time when technology can enable vast improvement in access, speed of publication and save the cost of publication. The present model of publishing is essentially a monopoly of publishers that is driven by the need to publish rather than the need for more information. The open access has emerged as a promising alternative to the current model of scholarly publishing that provides free access to scientific information to its users. The open access publishing model offers access to full-text of journals free of charge to the user through well-organized and professionally-managed web interfaces. The essential premise of open access movement is that the scientific community and society in general benefits from the open exchange of ideas and information unaffected and unencumbered from the limitations of subscription costs, licensing arrangements

and copyright inherent to the traditional model of commercial journal publishing. Open access journals and institutional repositories are two routes of open access publishing system.

Open-access journals are considered as "golden route" for providing access to peer-reviewed journal literature in electronic format free-of-charge without any restriction of access. Institutional repositories considered as "green route" to open access publishing, are being set-up in research institutions with anticipation that the faculty and researchers would submit their preprints or post-prints of articles that are either accepted for publication or already published in traditional printed journals.

The open access initiatives at the INFLIBNET Centre are working towards spread of open access movement in universities and institutions of higher learning. The Centre continued all the initiatives that were started in the previous years. These initiatives as described below:

8.1. Open Journal Access System (OJAS) (http://www.inflibnet.ac.in/ojs/)

Gaurav Prakash, Scientist B (CS)
Mohit Kumar, STA (CS)

The INFLIBNET Centre has installed and configured Open Journal System (OJS), open source software for electronic publishing of the journals, to facilitate 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 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 servers at the INFLIBNET Centre. The initiative also encourages faculty in universities to start their own open access journals using this platform.

During the period under report, INFLIBNET Centre received ten new requests for hosting journals on OJAS platform out of which four are in review process, four were rejected and two journals were selected for hosting on OJAS Platform.

Fig. 32: Open Journal Access System (OJAS)

Figure 32 depicts screenshot of Open Journal Access System (OJAS) interface. The following sixteen journals are currently hosted on OJAS:

- Journal of Literature, Culture and Media Studies - published by Nagaland Central University, Nagaland;
- 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;
- ICSSR Journal of Abstracts and Reviews (Geography), published by ICSSR, New Delhi;
- 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 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;
- Journal of Knowledge Consortium of Gujarat (Humanities), published by Knowledge Consortium of Gujarat, Gandhinagar;
- Trends in Information Management (TRIM), published by University of Kashmir, Srinagar;
- The Indian Journal of Animal Reproduction, published by, Department of Animal Reproduction, Gynaecology & Obstetrics, Madras Veterinary College, Chennai; and
- Margins, published by Department of English, Gauhati University, Guwahati.

8.2. Shodhganga: A Reservoir of Indian Theses & Dissertation (http://shodhganga.inflibnet.ac.in)

Jagdish Arora, Director

Manoj Kumar K., Scientist D (CS)

Yatrik Patel, Scientist D (CS)

Swapnil Patel, Scientist B (CS)

Suboohi Siddiqui, STO (LS)

Ramiz Malek, Sr. Project Officer (CS)

Archita Muchhadia, Project Officer (LS)

Kuldeep mateida, Project Officer (LS)

Neha Jain, Project Assistant (LS)

Shodhganga is a digital repository set-up for submission of electronic version of theses and dissertations by students / research scholars in universities in India and make them available in open access to the world-wide academic community in response to the UGC Notification (Minimum Standards & Procedure for Award of M.Phil. / Ph.D Degree, Regulation, 2009) where-in the responsibility of maintaining the digital repository of Electronic Theses and Dissertations (ETDs) is assigned to the INFLIBNET Centre. Shodhganga is set-up using DSpace, an open source software, that uses internationally recognized protocols and interoperability standards. The repository provides a platform to research scholars in universities to deposit, re-use and share their theses and dissertations. Figure 33 depicts the home page of Shodhganga website.
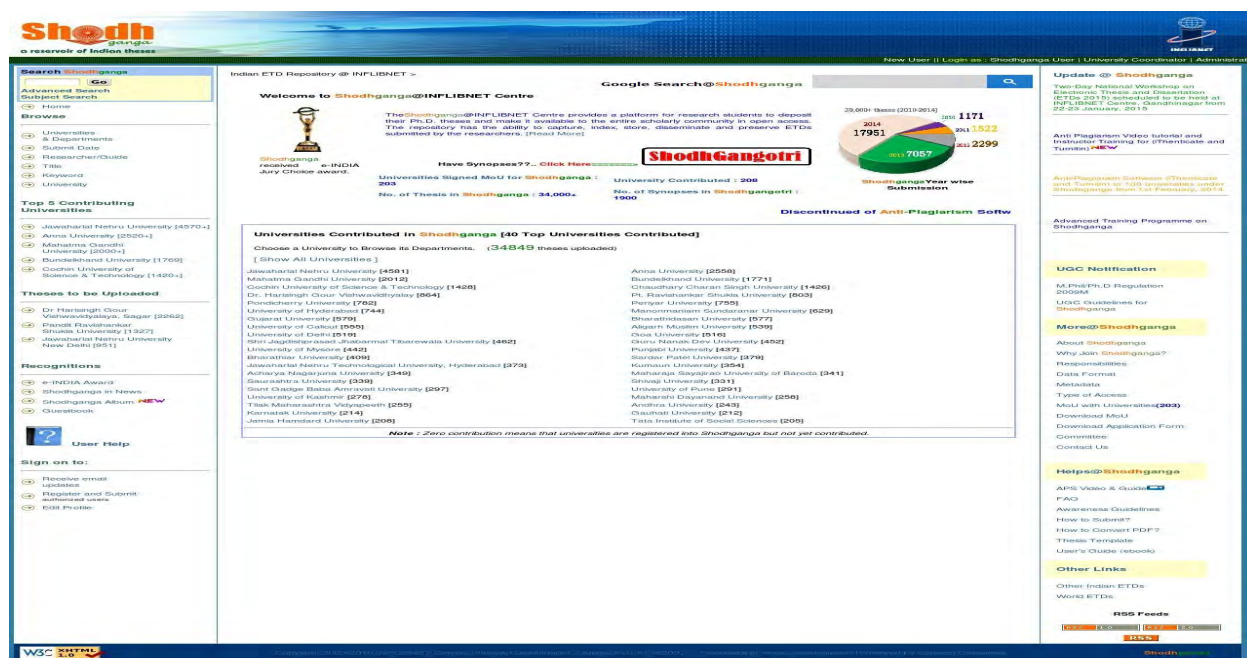
Fig.33: Shodhganga Website

Organisation of thesis in Shodhganga reflects the academic structure of every university in the country which offers Ph.D. programme to facilitate the scholars to submit their theses in the

respective Department / Centre / College of their Universities. Ingestion interface of DSpace was customized to meet the specific requirements and make the process of submission easy. The customized ingestion interface is simple to use and involves lesser number of steps in comparison to default submission interface of DSpace. The interface facilitates submission of theses either by university administrators, university representatives or researchers. The interface also facilitates self-registration of scholars wherein the user gets e-mail alerts and notifications at different stages of workflow. The Shodhganga website provides information that is helpful to the researchers, research supervisors and university authorities with regard to ETDs including their responsibilities, access policies, submission process, metadata structure, tutorial, manual, e-book, etc.

Besides default search and browse options provided by the DSpace, a subject search interface is embedded into Shodhganga based on OECD major classification and LOC's LCSH (Library of Congress Subject Heading List) to support subject-wise browse and search. The major subject domains include six categories vis-a-vis Natural Sciences, Engineering and Technology, Medical and Health Sciences, Agricultural Sciences, Social Sciences and Humanities. Each subject is given maximum of five levels of hierarchy depending upon the subjects. The search can be restricted to micro level (four levels down) for more precision on the subject domain. Figure 34 depicts Shodhganga's subject search interface.
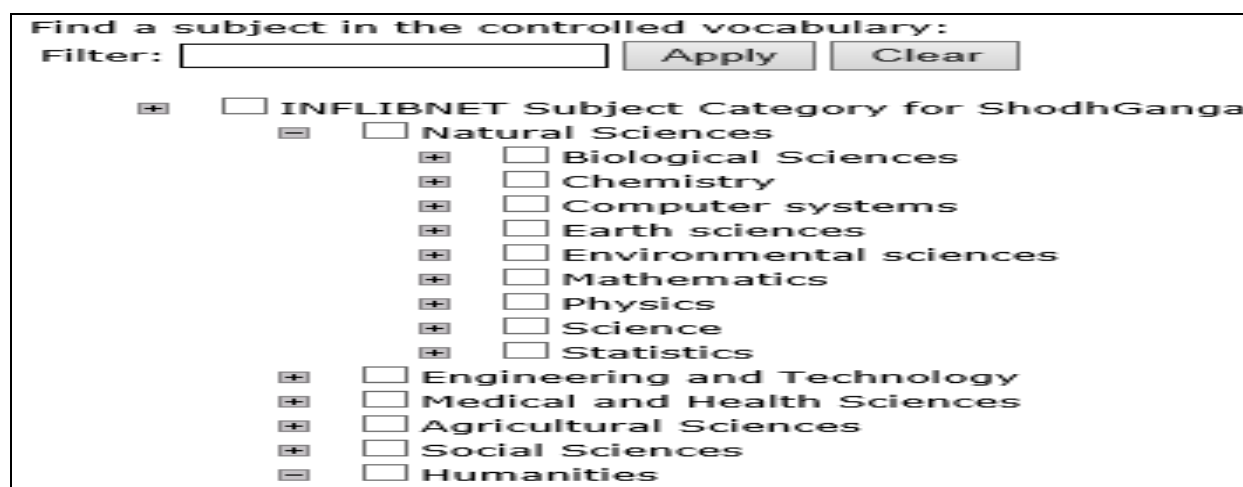
Fig. 34: Shodhganga's Subject Search Interface

Considering the fact that the process of adaptation of the UGC Notification may take time for universities, research students are encouraged to submit electronic version of their Ph.D. theses into the Shodhganga on voluntary basis. Once the submission of theses is mandated by a university, process of submission of theses can be monitored by respective universities so as to ensure that correct and final versions of all the theses from a given university are submitted into the Repository.

Universities are signing MoU with INFLIBNET Centre for granting non-exclusive rights to host their ETDs in Shodhganga. Moreover, students from different universities are also submitting electronic version of their theses into the repository on voluntary basis. As on 31st March 2015, researchers from 204 universities have submitted their theses into the repository. 203 universities have signed

MoU with the INFLIBNET Centre, 40 universities who signed the MoU on Shodhganga with INFLIBNET Centre during the year under report are given in Appendix XII. Many universities without signing MoU have also started contributing their theses into Shodhganga repository as per the UGC Notification. A list of 59 such universities who contributed softcopies of their theses into Shodhganga without signing MoU is given in Appendix XIII. Total number of theses submitted into the repository has grown to 34,800. Figure 35 depicts yearwise distribution theses submitted into Shodhganga.
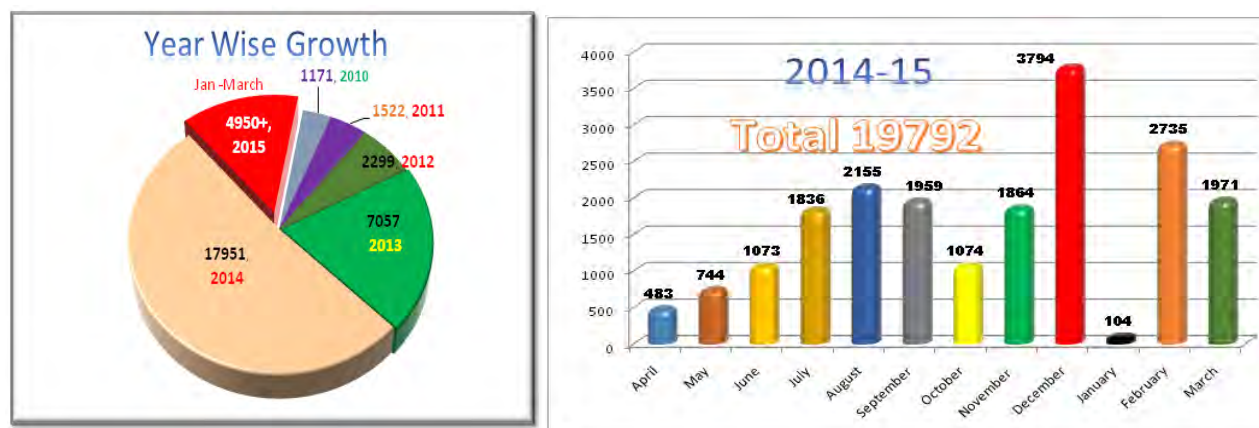
Fig. 35: Year-wise Submission of Theses into Shodhganga

8.2.1. Incentives to Universities for Signing MoU on Shodhganga with INFLIBNET Centre

On recommendation of the INFLIBNET Centre, UGC has constituted a Committee with Prof. V G Talawar as Chairman to recommend modalities and criteria for allocation of funds to universities that have signed MoU with INFLIBNET Centre on Shodhganga. Based on the recommendations of the Committee, the UGC has launched a new scheme for universities signatory to the MoU on Shodhganga with INFLIBNET Centre. The scheme provides for the following incentives to the universities:

   a. Funds for digitization of back lists of theses available in universities;
   b. Funds for setting-up of ETD Laboratory in eligible universities; and
   c. Extending access to anti-plagiarism software package in member universities.

The Scheme and the recommendation of the committee were approved by the UGC. 79 universities that are signatory to MoU with INFLIBNET Centre on Shodhganga and were eligible for receipt of financial assistance from UGC, have received funds from UGC for setting up of ETD lab and digitisation of old theses. UGC has released Rs. 13.05 crores grant to these 79 universities to INFLIBNET Centre for Shodhganga project till date as per the details given in Appendix XIV. In additional, INFLIBNET Centre has recommended release of total grant of Rs. 6.09 crores to 42 universities during October 2012 to March 2014.

After extensive evaluation, access to Turnitin and iThenticate, the most used product in Indian education institutions as well as world-ranked universities was given to 100 eligible universities for a period of one year.

8.2.2. Usage Statistics

INFLIBNET also monitors the usage of theses for proper analysis and planning for better service. General statistical summary for Shodhganga including page views, theses views, department views, university views and website views during the year under report are shown below in Figure 36.
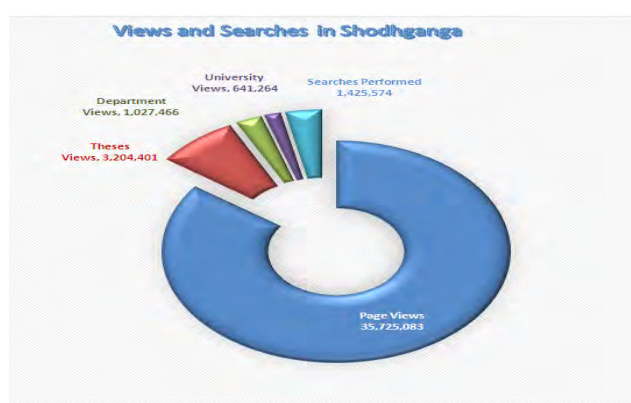
Fig. 36: Shodhganga General Statistical Summary

Top ten viewed theses are given in Table 18 along with their URL.

Sl. No.	Title /Researcher/Guide/University/Unique id	Number of Views
1.	Women freedom fighters in Tamil Nadu **URL**: http://shodhganga.inflibnet.ac.in/handle/10603/14211	11,624
2.	A comparative study of nationalized and private banks with reference to customer relation management **URL**: http://shodhganga.inflibnet.ac.in/handle/10603/2350	9,671
3.	History of English literature in pre-post Independence India: a critical evaluation **URL:** http://shodhganga.inflibnet.ac.in/handle/10603/4901	9,336
4.	Role of merchant banking in managing public issues: an empirical study with special reference to post 1997 era **URL:** http://shodhganga.inflibnet.ac.in/handle/10603/3566	9,067
5.	Customer acceptance of Internet shopping in India: impact of shopping orientations, knowledge and security **URL:** http://shodhganga.inflibnet.ac.in/handle/10603/2695	8,729
6.	Mergers and acquisitions in the Indian banking sector: an analytical study **URL:** http://shodhganga.inflibnet.ac.in/handle/10603/4506	8,554

7.	Discretionary powers of the governor under the constitution of India **URL:** http://shodhganga.inflibnet.ac.in/handle/10603/3695	7,767
8.	Political and administrative ideas of Manu and Kautilya: a comparative study **URL:** http://shodhganga.inflibnet.ac.in/handle/10603/4285	7,625
9.	Thematic patterns in the novels of Amitav Ghosh **URL:** http://shodhganga.inflibnet.ac.in/handle/10603/7898	7,099
10.	A comparative study of life insurance Corporation of India and private life insurance companies in India **URL:** http://shodhganga.inflibnet.ac.in/handle/10603/3519	6,939

Table 18: List of Top 10 Theses viewed till 31st March, 2015

8.2.3. Visitors to Shodhganga

The analysis of visitors to shodhganga reveals that 70% users are new users in the year 2014 -2015. The new visitors and returning visitors are shown below in pie chart. There are many users from other countries who are visiting Shodhganga regularly. Foreign users from United States of America, UK, Spain, Iran, Malaysia, Pakistan, Philippines and China are the top countries in the users list. No. of visitors from top ten countries are given below in Figure 37.
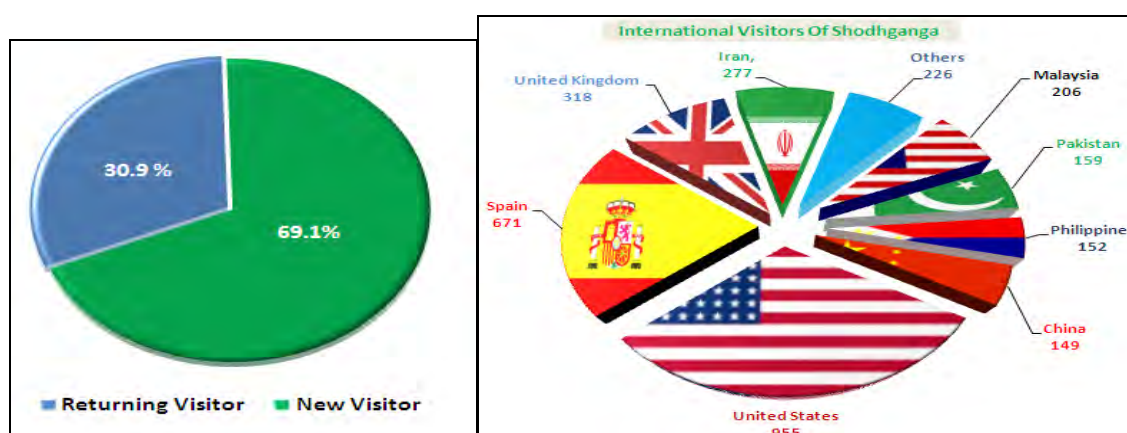
Fig.37: Visitors to Shodhganga

Data on visitors to Shodhganga from major cities in India has also been captured. Figure 38 shows that most of the visitors are from Gandhinagar (Gujarat) followed by visitors from New Delhi and Chennai.
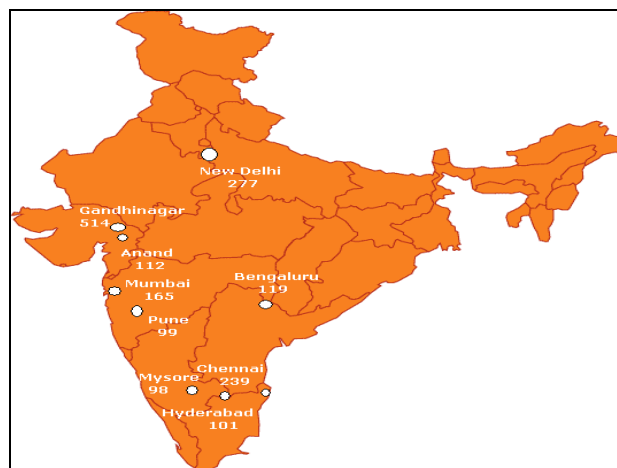
Fig. 38: Indian Visitors of Shodhganga from 10 Major Cities

8.2.4. Subject Search Facility

Yatrik Patel, Scientist D (CS)

Swapnil Patel, Scientist B (CS)

Divyakant Vaghela, Scientist B (CS)

Subject search facility has been added to Shodhganga. The Centre has studied and created subject tree structure based on Web of Science and UNESCO-SKOS subject structure. Utility to convert rdf file to xml has also been developed. The handle server of Shodhganga has been configured to provide global identification to the resources uploaded in the repository.

8.3. Shodhgangotri: A Repository of Synopses submitted to Indian Universities for Registration in Ph.D. Programme (http://shodhgangotri.inflibnet.ac.in/)

Under this new initiative, research scholars / research supervisors in universities could deposit an electronic version of approved synopsis submitted by research scholars to the universities for registering themselves under the Ph.D. programme. Synopsis in Shodhgangotri would later be mapped to full-text thesis in Shodhganga. As such, once the full-text thesis is submitted for a synopsis, a link from synopsis in Shodhgangotri to the full-text theses in Shodhganga will be provided. During the year under report, 35 universities contributed their synopses into shodhgangotri and 1901 approved synopses were submitted into the repository.

8.4. InfoPort: A Subject Gateway to Indian Scholarly Internet Resources (http://infoport.inflibnet.ac.in/)

Yatrik Patel, Scientist D (CS)

Swapnil Patel, Scientist B (CS)

Roma Yogesh Asnani, STA (LS)

INFOPORT: INFLIBNET Subject Gateway for Indian Electronic Resources is designed to facilitate registering of an Internet resource into the portal and extending its access to users. INFOPORT

supports browsing of Internet resources by Dewey Decimal Classification (DDC) Scheme. The main functional parts of INFOPORT are:

- Dewey Decimal Classification (DDC) Search;
- Search Cloud;
- Free-Text Search;
- Alphabetical Search;
- Resource Type Search; and
- Intute Search

During the year under report, number of features and functionalities of subject gateway were enhanced based on feedback from users and populated with additional Internet resource. The interface is populated with more than 1,758 e-resources.

9.   e-Learning and e-Content Development

9.1. e-PG Pathshala (http://epgp.inflibnet.ac.in/)

Jagdish Arora, Director
Abhishek Kumar, Scientist C (CS)
Kannan P. Scientist B (LS)
Shweta Brahmbhatt, Project Officer (CS)
Atul Patel, Project Assistant (LS)

The MHRD, under its National Mission on Education through ICT (NME-ICT) has allocated funds to the UGC for development of e-content in 77 subjects at postgraduate level. One subject comprises of 16 papers and each paper consist 30-35 e-modules i.e. equivalent to 40 hour lectures. This is a first of its kind single largest extensive project, in terms of number of modules to be developed and subjects to be covered in India. High quality, curriculum-based and interactive content are being developed in different subjects across all disciplines of social sciences, arts, fine arts and humanities, natural & mathematical sciences, linguistics and languages under this initiative named e-PG Pathshala. The Learning Management System for e-PG Pathshala (http://epgp.inflibnet.ac.in/) is available in open access and hosted on INFLIBNET server as well as through Sakshat Portal.

Fig. 39: Website of e-PG Pathshala

A separate website is maintained for e-PG Pathashala as shown in Figure 39.

The UGC has constituted a Standing Committee for e-PG Pathshala under the Chairmanship of Prof. M. Anandakrishnan, Chairman, Governing Board, IIT Kanpur on e-content creation to monitor and coordinate the activity of content creation in a most effective and efficient manner. Moreover, the Standing Committee has constituted a sub-Committee whose scope is to review the sample modules, identification of new PIs, recommendation for disbursement of funds, creation of technical review committee and resolving all other issues being faced by the PIs.

Progress made and initiatives taken during year to speed-up the process of content creation is as follows:

   i.   Identified eminent professors (Principal Investigators [PIs]) for 70 subjects across central, state, deemed universities, IITs, each PI has a team of 40-60 (approx.) subject matter experts who write content;

  ii.   Multimedia vendors have been empanelled to help the PI to enrich their contents with graphics / animations;

 iii.   Customized and installed an open source Learning Management System to host the e-content;

 iv.   Developed 'e-Pathshala Management System', a platform to meet / interact among the team members of each subject and maintain / track the work progress made by stack-holder (paper coordinator, content writers, language editors and reviewers);

  v.   More than 1,200 modules are developed and being uploaded on e-PG Pathshala website as shown in Figure 40;
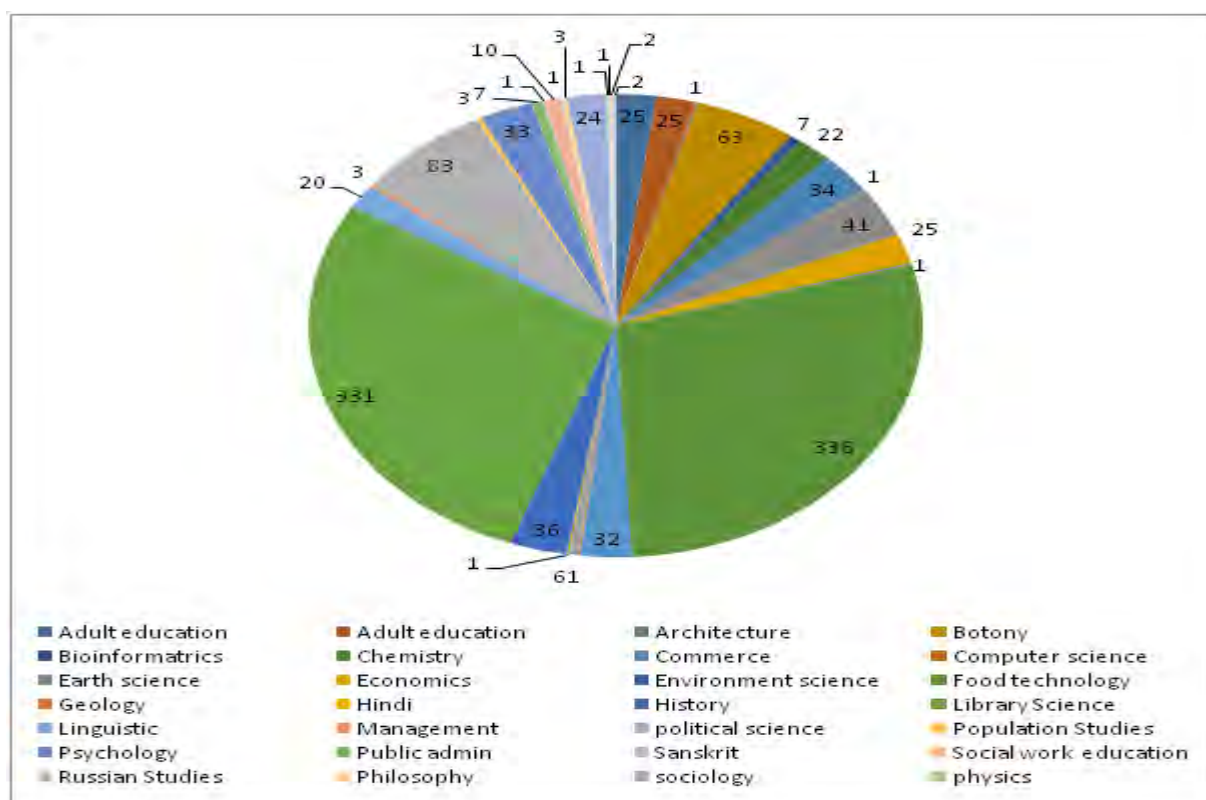
Fig. 40: Uploaded Modules

vi. Several Workshop (13 by the UGC and may more by individual PIs) were conducted for subjects;

vii. Formation of Technical Review Committee to review the content, being developed by the PIs;

viii. Monitoring Cell deployed at UGC, is constantly making phone calls and emails to each PIs for expediting their work.

ix. UGC conducted four meeting for "Resolving Technical and Managerial Issues" for all PIs in different geographical locations (east, west, south & north zone).

9.2. e-Acharya: Integrated e-Content Portal (http://content.inflibnet.ac.in/)

Jagdish Arora, Director
Yatrik Patel, Scientist D (CS)
Abhishek Kumar, Scientist C (CS)
Shweta brahmbhatt, Project Officer (CS)
Vikram Rathore, Project Officer (LS)
Darshan Modi, Project Associate (CS)
Parth Viroja, project Associate (CS)
Sonal Vaghela, Project Associate (LS)
Rajeshri Makwana, Project Associate (LS)
Parul Chavda, Project Associate (LS)

A portal to host all e-content project, developed / funded under the National Mission of Education through ICT is developed by the INFLIBNET Centre under the initiative called "e-Acharya: Integrated

e-Content Portal". There are more than 70 projects on e-content under NME-ICT which are developed/ being developed in various subject disciplines (Science, Arts, Engineering, Social Science, etc.) through various Indian institutes/universities/colleges. A separate website/ portal called e-Acharya: Integrated e-Content Portal is being developed as shown in Figure 41.
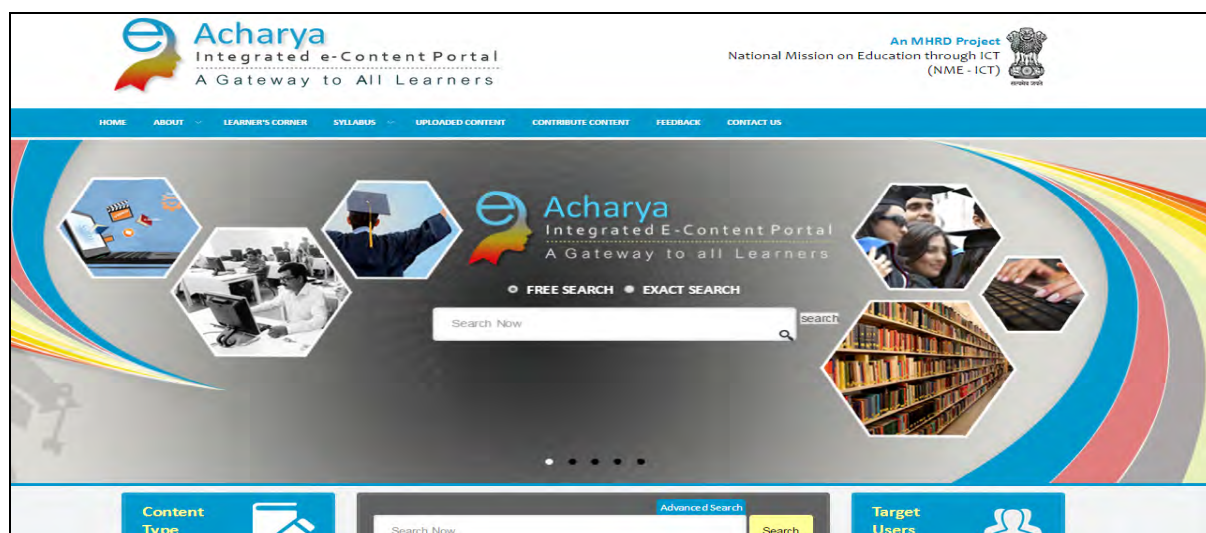
Fig. 41: Website of e-Acharya: Integrated e-Content Portal

The portal provides facility to search and browse all e-content hosted on the portal wherein a learner can easily access the desired material including audio/video learning material, textual material, multimedia enriched materials, etc. through a single interface. Moreover, features of faceted search, usage statistics, project-wise accessare incorporated in this portal. Features of learning experience such as "Learner's Corner / My Account", mobile apps, syllabus based access are being incorporated.

The Centre has acquired content from more than 25 principal investigators who have developed content with funding from NME-ICT.

10.   Website Development & Maintenance

The Centre uses web technology to provide organized and structured access to its services and resources to the academic community through the Centre's Website as well as through websites of its individual services and products. The Centre's Website is designed to work as an integrated interface for all services and resources accessible to the academic community in the universities and colleges. The Web Development team has especially been set-up for designing innovative web-based interfaces for effective and efficient delivery of services using the latest web-based tools and technologies. The Group undertakes all activities related to selection, organisation and presentation of services and resources in a meaningful way for the benefit of the user community.

Technology Used:
Development Tools: PHP, HTML, DTML, JSP, JavaScript
Database: MySQL Server, Postgres SQL Server and MS SQL Server

Operating Systems: Red Hat Linux Entrreprise Server 4.0, Fedora 8.0/9.0
Open Source Software: phpChat, MediaWiki, phpBB, Dspace and WordPress

10.1. INFLIBNET Centre's Main Website (http://www.inflibnet.ac.in/)

Ashok Kumar Rai, Scientist D (CS)

The Centre maintains comprehensive Websites in English and Hindi as shown in Figure 42. Several new additions were made to the new version of the Institute's website. A technology called "Real Simple Syndication (RSS)" was introduced to facilitate users and bloggers to harvest recent updates from the Centre's web site. Web 2.0 features and functionalities, including Wiki, Blog, Chat and Discussion Forum, RSS feed, etc. were incorporated in the Website. The Intranet web site is populated with fillable forms along with internal circulars, committees and their constitutions, Bye Laws, Memorandum of Association, etc. The new website of the Centre has the following main features:

- ⏩ Powerful search and browse interface;
- ⏩ Dynamic calendar;
- ⏩ Recent and new events;
- ⏩ Download forms and documents;
- ⏩ Online feedback mechanism;
- ⏩ Mailing list, video gallery, webmail, etc.;
- ⏩ Latest news, jobs, tenders, etc.; and
- ⏩ Wiki, weblog, RSS feeds and online chat.

Fig. 42: INFLIBNET's Website

10.2. Intranet (http://172.16.16.11/intranet/; for INFLIBNET Staff Only)

A separate Intranet website is maintained for the internal staff of the Centre as shown in Figure 43. The website provides detailed information to fulfil the following requirement of scientists and staff of the Centre:

- Rules and regulations of the Centre;
- MoA;
- All circulars;
- All types of forms in fillable pdf format;
- Committees and their constitutions;
- List of holidays; and
- Presentations on various activities and services of the Centre.
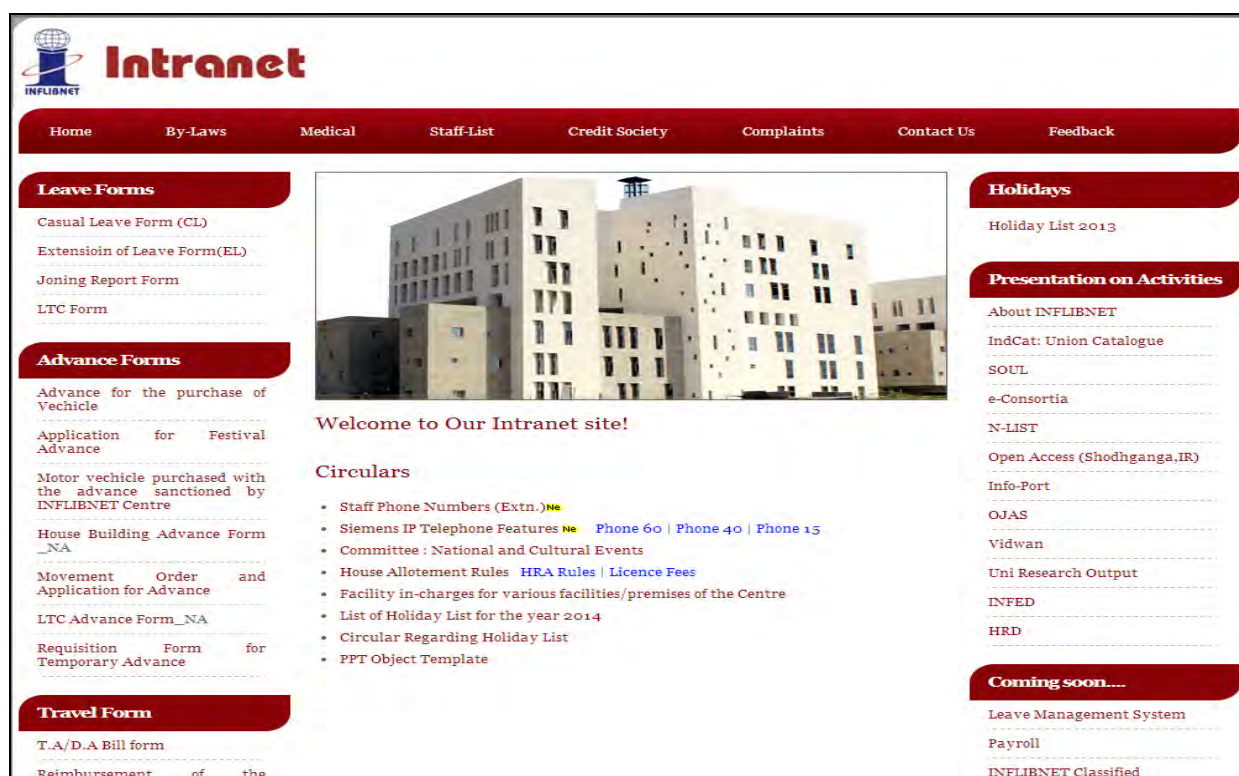
Fig. 43: INTRANET Website

10.3. Implementation of Web 2.0 Technologies at the Centre

The INFLIBNET Centre has entered into the world of Web 2.0 and Library 2.0 with implementation of interactive and collaborative technological tools. All the Web 2.0 tools used are open source software. Web 2.0 / Library 2.0 technologies implemented at INFLIBNET Centre includes Chat (http://www.inflibnet.ac.in/chat/), Blogs (http://www.inflibnet.ac.in/blog), Wiki (http://www.inflibnet.ac.in/wiki/), Streaming Media and Social Network (http://in.youtube.com/inflibnet), RSS Feeds Aggregation Service (http://www.inflibnet.ac.in/feed/), Library Toolbar, etc.

11. Shibboleth based Access Management System (http://parichay.inflibnet.ac.in/)

Jagdish Arora, Director
Yatrik Patel, Scientist D (CS)
Ashok Kumar Rai, Scientist D (CS)
Swapnil Patel, Scientist B (CS)

The INFLIBNET Access Management Federation (INFED) is designed to protect the privacy of users while giving both Service Providers and User Organisations sufficient assurance that requirements such as licenses and acceptable use policies can be enforced. The Shibboleth architecture chosen for the INFED is designed to protect user privacy. However, the measures it provides can only be effective if they are used and respected by User Organisations, Identity Providers and Service Providers.

The federation and its website (parichay.inflibnet.ac.in) has been created with all documentation. Identity provider has been created for N-LIST user and has been successfully tested with few publishers. At present it has been tested with a handful of service providers and available in production mode. INFLIBNET access management federation has also joined eduGAIN.

12. Bibliometric Studies and Research Productivity Studies (http://inflibnet.ac.in/iur/)

Jagdish Arora, Director
Kruti Trivedi, Scientist B (LS)
Hitesh Solanki, Scientist B (CS)
Roma Yogesh Asnani, STA (LS)
Kuldeep Matieda, Project Officer (LS)

The Centre has set up a Bibliometric team to study the impact of access to e-resources on research productivity in universities in India. The team has developed research profiles of 50 member universities, the profiles of remaining universities are being developed. These profiles include research output of a university, annual and cumulative growth of research publications over a period of four decades, impact of research in terms of citations received, H Index, focused areas of research of a university including its strength and weaknesses, international and national collaborations in different disciplines, correlation between number of articles downloaded from e-resources and number of research articles produced by researchers in a given university.

The Centre has also developed a portal to rank universities in India using well-established ranking formula that are evolved using well-balanced, multi-dimensional approach, combining qualitative and quantitative indicators. The portal facilitates overall ranking of 160 universities as well as their ranking is eight subject domains using four well-established ranking formula i.e. i) I-UGR Ranking; ii) NTU Ranking; iii) GRBS Ranking; and iv) URAP-TR Ranking.

Science Citation Index (SCI), Social Science Citation Index (SSCI) and the Arts and Humanities Citation Index (A&HCI) hosted on the Web of Knowledge platform is used for collecting data on publications, citations, H index and other parameters used for ranking of Indian universities for this portal. These three indices were searched to determine the quantitative productivity of all 793 degree-awarding institutions in India in terms of research articles published by them in a span of six years, i.e. 2009 to 2013. 160 universities who have published more than 265 research articles over a period of six years, i.e. 2009 to 2013 were selected for ranking. The ranking results of these 160 universities can also be sorted based on i) four individual performance indicators such as total publication count; proportion of top 10% publications, mean citation score, and h-index; ii) types or categories of institutions; and iii) universities within a state or geographical region.

13. INFLIBNET Virtual Classroom

Jagdish Arora, Director
Yatrik Patel, Scientist D (CS)
Divyakant Vaghela, Scientist B (CS)
Vijay Shrimali, STA (CS)

INFLIBNET Centre has started INFLIBNET Virtual Classroom in the previous year to provide online training to academic users by delivering online lectures through A-VIEW classroom software. The objective behind the INFLIBNET Virtual Classroom is to provide training over the Internet to users in academic institutions. It means that the participants or lecturers need not be present physically in classroom, they can attend the session while sitting on their premises.

Scientists of the Centre interact with users in universities and colleges on various activities and functions of the Centre including N-LIST, UGC-Infonet Digital Library Consortium, Library Management Software (SOUL), OJAS, Union Catalogue (IndCat), Shodhganga and Shodhgangotri, etc. INFLIBNET Centre has conducted 7 lectures on different modules of SOUL software, DSpace and different activities of INFLIBNET Centre. Lectures may also be arranged based on demand from the user community.

14. Institutional Repositories Customizations and Support

Yatrik Patel, Scientist D (CS)
Swapnil Patel, Scientist B (CS)
Divyakant Vaghela, Scientist B (CS)

The INFLIBNET Centre is assisting institutions of higher learning in the process of creation and maintenance of institutional repositories. The Centre is using self-developed expertise in open source software like DSpace, Linux, Perl and Java. Under this initiative, the Centre has installed and customized Institutional Repository for various institutions.

Besides, the Centre also provides proactive help and support to many institutes like Indian Institute of Advanced Study, Fiji National University, Space Application Centre, OP Jindal Global University over phone and via remote login to setup their repositories on their own. The Centre has provided training on DSpace to the professionals working at G.B Pant University, Pantnagar and Manonmaniam Sundaranar University as a part of Attachment Training Programme.

During the year under report, the Centre has extended this service to one of the prestigious defence establishment besides others. The Centre has successfully carried out the project of platform upgradation and security enhancement of institutional repository (DIGITAP project) hosted at NASDO, Indian Navy, Goa.

This group is also responsible to support and maintain INFLIBNET Centre's Institutional Repositories as well as other open access initiatives like Shodhganga and Shodhgangotri.

15. Revamping of the UGC Websites and Development of Grant Management System and e-Scholarship-Fellowship Award Registration Tracking System (e-SARTS)

The University Grants Commission has given the responsibility for development and maintenance of website of the UGC as well as for automation of its various schemes, Grant Management System and e-Scholarship-Fellowship Award Registration Tracking System (e-SARTS). The project was awarded to the INFLIBNET Centre in the month of May 2011. The Centre has set-up a dedicated server for the UGC web site and schemes which is co-located at the Data Centre of the BSNL, Ahmedabad. So far, the Centre has developed interfaces for the following schemes:

➢ **Maulana Azad National Fellowship for Minority Students**: Online applications were invited for this scheme for the years 2014-15. 8,136 applications were received and processed.

➢ **Rajiv Gandhi National Fellowship for SC/ST Candidates**: 14,462 candidates have applied for the Scholarship for the year 2014-15. Online applications were received and processed.

➢ **Post-Graduate Indira Gandhi Scholarship for Single Girl Child:** Online applications were invited for this scheme for the years 2014-16. 4,475 applications were received and processed.

➢ **Post-Graduate Merit Scholarship for University Rank Holder:** Online applications were invited for this scheme for the years 2014-16. 3,022 applications were received and processed.

➢ **Post Doctoral Fellowship to SC/ST Candidates**: 1,369 candidates have applied for the year 2014-15. Online applications were received and processed.

- **Post Graduate Scholarship for Professional Courses for SC/ST Candidates**: Online applications were invited for this scheme for the years 2014-15. 4,700 applications were received and processed.

- **Post-Doctoral Fellowship to Women Candidates:** 1,839 candidates have applied for the year 2014-15. Online applications received and processed for further necessary action by the UGC.

- **Emeritus Fellowship**: Online applications were invited for this scheme for the years 2014-15. 401 applications were received and processed.

- **Rajiv Gandhi National Fellowship for Students with Disabilities:** 725 candidates have applied for the year 2014-15. Online applications received and processed for further necessary action by the UGC.

- **Major Research Project:** Online applications were invited for this scheme for the years 2014-15. 5,020 applications were received and processed.

- **Research Awards:** Online applications were invited for this scheme for the years 2014-16. 484 applications were received and processed.

- **Dr. S. Radharkrishnan Post-Doctoral Fellowship in Humanities and Social Sciences (Including Languages):** Online applications were invited for this scheme for the years 2014-15. 733 applications were received and processed.

- **Special Assistance Programme (SAP-DRS Phase-I):** Online applications were invited for this scheme for the years 2014. 314 applications were received and processed.

- **Swami Vivekananda Single Girl Child Scholarship for Research in Social Sciences:** Online applications were invited for this scheme for the years 2014-15. 97 applications were received and processed.

- **Special Scholarship Scheme for North Eastern Region:** Online applications were invited for this scheme for the years 2014-15. 53,777 applications were received and processed.

- **National Fellowship for OBC Candidate:** Online applications were invited for this scheme for the years 2014-15. 10,113 applications were received and processed.

16. Publications

The INFLIBNET Centre has two major publications i.e. Quarterly Newsletter and Annual Report. Both publications were brought out and distributed to the academic community of the country. The

copies of the newsletters and annual reports downloadable in PDF format are available at the "Publications" on INFLIBNET website at http://www.inflibnet.ac.in/publication/. The copies of Annual Reports, PLANNER and CALIBER proceedings are also available through the Institutional Repository (IR) in PDF format. The course materials of various training programmes and workshops, lecture notes, presentations and newspaper clippings are also available in the IR of the Centre at http://ir.inflibnet.ac.in:8080/dxml. List of publications including articles, published conference proceedings, user guides and manuals published by scientists and staff of the Centre is given as below:

16.1. Conference Proceedings in Print

i) Arora, Jagdish et al (eds.). Capacity Building in Library and Information Services: Proceedings of the 9th PLANNER 2014 organised by INFLIBNET Centre, Gandhinagar, September 25-27, 2014. Gandhinagar: INFLIBNET Centre, 2014. 420 p.

ii) Arora, Jagdish et al (eds.). Innovative Librarianship: Adapting to Digital Realities: Proceedings of the 10th International CALIBER 2015 organised by INFLIBNET Centre, Gandhinagar, March 12-14, 2015. Gandhinagar: INFLIBNET Centre, 2015. 597 p.

16.2. Papers Published in Journals, Newsletters and Conference Proceedings

iii) Arora, Jagdish and Trivedi Kruti. Developing national ranking for Indian universities: Moving towards world class university. INFLIBNET Newsletter, 21(2), p. 20-27, 2014.

iv) Pradhan, Dinesh Ranjan and Pandya, Mitesh. Federated search and discovery Services: A standards and protocols perspective. INFLIBNET Newsletter, 21(3), p. 24-29, 2014.

v) Manoj Kumar, K. Recent trends in databases and new technologies for providing online library services to create "Intelligent Libraries". INFLIBNET Newsletter, 21(4), p. 22-29, 2014.

vi) Kumar, Abhishek and Brahmbhatt, Shweta. MOOCs: An education space with difference. INFLIBNET Newsletter, 22(1), p. 30-36, 2015

vii) Trivedi, Kruti, Sharma, Dinesh Kumar, Chand Prem and Ahluwalia P K. Towards quality assurance in reader services in a digital era: a case study of Himachal Pradesh University Library readers' survey. **In:** Innovative Librarianship: Adapting to Digital Realities: Proceedings of the 10th International CALIBER 2015 organised by INFLIBNET Centre, Gandhinagar, March 12-14, 2015. (eds. Jagdish Arora [et.al.]). Gandhinagar: INFLIBNET Centre, p. 287-297, 2015.

viii) Agrawal, Pawan, Kumar, Abhishek and Agrawal, Ankush. Massive open online courses: EdX.org, Coursera.com and NPTEL, A comparative study based on usage statistics and features with

special reference to India. **In:** Innovative Librarianship: Adapting to Digital Realities: Proceedings of the 10th International CALIBER 2015 organised by INFLIBNET Centre, Gandhinagar, March 12-14, 2015. (eds. Jagdish Arora [et.al.]). Gandhinagar: INFLIBNET Centre, p. 390-402, 2015.

ix) Modi, Darshan, Kumar, Abhishek and Tiwari, Sanjay Kumar. Video content delivery: Red 5. **In:** Innovative Librarianship: Adapting to Digital Realities: Proceedings of the 10th International CALIBER 2015 organised by INFLIBNET Centre, Gandhinagar, March 12-14, 2015. (eds. Jagdish Arora [et.al.]). Gandhinagar: INFLIBNET Centre, p. 453-460, 2015.

x) Manoj Kumar, K. and Arora, Jagdish. Shodhganga and deterring plagiarism in research outputs in Indian universities. **In:** Innovative Librarianship: Adapting to Digital Realities: Proceedings of the 10th International CALIBER 2015 organised by INFLIBNET Centre, Gandhinagar, March 12-14, 2015. (eds. Jagdish Arora [et.al.]). Gandhinagar: INFLIBNET Centre, p. 524-533, 2015.

xi) Patel, Mayank, Parmar, Bhavesh, Patel, Yatrik and Joshi, Hiren. Efficient dynamic index structure for natural number intensive application. International Journal of Computer Applications, 109 (4), 13-20, 2015.

xii) Pandya, Mitesh. Radical shift from OPAC to federated search engine in language diversified community. International Journal of Information Dissemination and Technology, 4(2), 106-109, 2015.

17.   Awards, Honours and Distinctions

17.1. Jagdish Arora, Director

The Afro-Asian Book Council bestowed "Award of Excellence for his Outstanding Performance in the field of Librarianship" onto Dr. Jagdish Arora for the year 2015. The award was presented to him during Seminar on Afro-Asian Co-operation in Publishing & Printing held on 19th February, 2015 at Pragati Maidan, New Delhi during New Delhi World Book Fair 2015.

Dr. Arora was nominated as a Member of the Finance Committee as well as a Member of the First Court of the Central University of Gujarat, Gandhinagar for the years 2014-16. He was a Member of the Committee on Curriculum in Library Science, University of Kota, Rajasthan, a Member of the Steering Committee for Master Degree Programme in Library Science at Central University of Jammu and a Member of the School Board, School of Information Science and Technology, Babasaheb Bhimrao Ambedkar University, Lucknow, UP for a period of three years.

Dr. Arora was nominated as a member of the Core Committee for Setting-up ICSSR Data Repository in collaboration with Ministry of Statistics and Programme Implementation. He attended the Workshop on Underpinning the Development Data Revolution: Collaboration in Data Archiving"

from 7th to 8th January, 2015 organized by UK Data Service, Institute for Social and Economic Research, University of Essex, UK. He also made a presentation on "Social Science Data Archiving in India" during the Workshop.

Dr. Jagdish Arora was invited to attend Round Table Meeting on OER Policy & Related Implementation organised by NME-ICT, New Delhi on 26th May, 2014. He was nominated as Chairman of the ICSSR-NASSDOC Committee on Documentation Services and Research Information (CDS&RI). He was Chairman of the Negotiation Committee of the Ministry of Earth Science Consortium for the years 2013-2016. He continued to be a member of the Standing Committee as well as its sub-committee on Content Development under e-PG Pathshala Project.

During the year under report, Dr. Arora delivered the following invited lectures / keynote addresses at various workshops, training programmes and conferences:

i) "Activities of INFLIBNET Centre and Possible Contributions to the National Virtual Library", presentation made to the members of National Mission on Libraries during their Meeting held on 4th July, 2014, Central Secretariat Library, New Delhi.

ii) "Ranking of World Class Universities and a Model for India", presentation made in 4th UGC-Infonet University forum, 5th August, 2014, New Delhi.

iii) "Integrating ICT in Academic Libraries: Role of Academic Libraries in Promoting Research and Innovation in Google Era" keynote addressed delivered during the National Seminar on "Integrating ICT in Academic Libraries: Making a Difference in Knowledge Age" organized by the Central University of Karnataka, Gulbarga during 12th-13th August, 2014 in Gulbarga.

iv) "Open Access Initiatives at INFLIBNET Centre", Presentation made in the SAARC Documentation Centre's Conference on Open Access, URDiP, Pune, 13th-14th October, 2014.

v) "Overview of JSTOR and Long-term Preservation of Digital Resources", Presentation made in the SAARC Documentation Centre's Conference on Open Access, URDiP, Pune, 13th-14th October, 2014.

vi) "Media and Information Literacy: Initiatives at INFLIBNET Centre", invited talk at the UNESCO-led National Consultation on Media & Information Literacy, India International Centre, New Delhi, 11th to 13th November 2014.

vii) "e-Resource Management and their Life Cycle", keynote address delivered in the National Conference on Management of e-Resources and Institutional Repositories (NACMEIR-2014), University of Hyderabad, 14th and 15th November, 2014.

viii) "Providing Access to Scholarly Content to Institutions of Higher Education using NKN Infrastructure: Major Initiatives of the INFLIBNET Centre", invited talk delivered during the 3rd NKN Annual Workshop, IIT Guwahati, 15th to 17th December 2014.

ix) "Social Science Data Archiving in India", invited talk during the Workshop on Underpinning the Development Data Revolution: Collaboration in Data Archiving", University of Essex, UK, 7th and 8th January, 2015.

x) "ICT in Academic Libraries: Promoting Research and Innovation in Google Era", keynote address delivered during the National Conference on "Contrivance of Academic Libraries in Digital Era (NCCALDE-2015)", Vikram University, Ujjain, 6th-7th February, 2015.

xi) "Integrating ICT in Academic Libraries: Role of Academic Libraries in Promoting Research and Innovation in Google Era", invited talk delivered during the National Conference on Academic Libraries with Special Focus on ICT Applications, Malayalam University, Calicut, 2nd- 3rd March, 2015.

xii) Valedictory address to the participants of "One-day Seminar on Indian Science Books" organized on the occasion of the National Science Day on 28th February 2015 at NISCAIR, New Delhi in collaboration with RRRLF, Ministry of Culture.

17.2. Mr. Manoj Kumar K., Scientist D (CS)

Mr. Manoj Kumar K.visited Aligarh Muslim University, Aligarh as an expert member in a committee constituted by the Vice Chancellor for digitisation and procurement of equipment for setting up of ETD lab in the university on 8th January, 2015. During the year under report, Mr. Manoj Kumar delivered the following invited lectures/ tutorials at various workshops, training programmes and conferences:

i) "Anti-plagiarism software: Turnitin & iThenticate", delivered during user awareness programme on EBSCO Discovery Service, Anti-plagiarism and Academic Performance Index, jointly organized by Smt Hansa Mehta Library, Gujarat Science Academy, Baroda Chapter and EBSCO Publishing on 10th October 2014.

ii) "Institutional repository using DSpace", pre-conference tutorial delivered during International Conference on the Convergence of Libraries, Archives and Museums at Indira Gandhi National Centre for the Arts, New Delhi on 26th November, 2014.

iii) "Shodhganga and anti-plagiarism software", delivered during Refresher Course on Use and Importance of Current Trends and Technologies in Modern Library organised by Dept of Library and Information Science and Academic Staff College, Gujarat University, Ahmedabad on 4th December, 2014.

iv) "Use of current trends, gadgets, technology in modern libraries", delivered during refresher course on 'Use and Importance of Current Trends and Technologies in Modern Library' organised by the Deptt. of Library and Information Science and Academic Staff College, Gujarat University, Ahmedabad on 11th and 12th December, 2014.

v) "Gateway to E-resources: Special Reference to N-LIST provided by INFLIBNET" and "Use of Software/Tools for Deterring Plagiarism in Academic and Research Contexts", delivered during two-day Workshop on Academic Writing and Publishing organised by the Kerala State Higher Education Council, Government of Kerala on 24th March, 2015.

17.3. Mr. Ashok Kumar Rai, Scientist D (CS)

Mr. Ashok Kumar Rai attended the Meeting of the CeRA Monitoring and Negotiation Committee at ICAR, New Delhi on 15th December, 2014. He delivered invited lectures on "Consortium initiatives in India" during refresher course on Use and Importance of Current Trends and Technologies in Modern Library organised by the Deptt. of Library and Information Science and Academic Staff College, Gujarat University, Ahmedabad on 9th December, 2014 and "INFLIBNET: ICT based services to Academic Institutions in India" during seven-day National Workshop for Physical Educationalist on Use of Computer Application organised by Swarnim Gujarat Sport University and H L College of Commerce, Ahmedabad on 17th December, 2014.

17.4. Mr. Yatrik Patel, Scientist D (CS)

Mr. Yatrik Patel was invited as Guest of Honour during Library Users Orientation Programme at Gujarat University, Ahmedabad on 8th August, 2014.

He served as faculty to the following workshops / training programmes and delivered lectures / talks / keynote address:

i) Institutional Repository using DSpace, invited talk delivered during Training Programme on Technology Implementation in Libraries in New Era organized by Sardar Patel Institute of Public Administration (SPIPA), Ahmedabad, 3rd June, 2014;

ii) INFLIBNET Centre's Activities & Services in Higher Education in India during Refresher Course in Information & Communication Technology at Academic Staff College, Gujarat University, Ahmedabad on 20th June, 2014;

iii) Setting-up Institutional Repository, invited lecture during Library Users Orientation programme at Gujarat University, Ahmedabad on 8th August, 2014;

iv) INFLIBNET Services for Engineering Colleges with special reference to SOUL & N-LIST, invited lecture during Workshop on Modernization of Library Services in Engineering College, IIT Gandhinagar ,13th to 14th October, 2014;

v) "Information Security and Institutional Repository" invited lecture during Refresher Course on Use and Importance of Current Trends and Technologies in Modern Library organised by Dept of

Library and Information Science and Academic Staff College, Gujarat University, Ahmedabad, 16th December 2014; and

vi) "N-LIST programme", Keynote Speech delivered during the Seminar on "Increasing Usage of E-resources in Colleges" jointly organised by ADINET and K K Shah Jarodwala Maninagar Science College, Ahmedabad, 3rd January 2015.

17.5. Mr. Abhishek Kumar, Scientist C (CS)

Mr. Abhishek Kumar served as faculty to the following workshops / training programmes and delivered invited lectures / talks:

i) "Preparing e-Modules for e-PG Pathshala", invited lecture-cum demonstration during One-day Workshop under e-PG Pathshala for the subject 'Philosophy', University of Pune, Pune, 15th May 2014 and Workshop under e-PG Pathshala for the subject "Women's Study at the Centre for Women's Studies, Allahabad University, 12th September 2014;

ii) "e-Learning: E-content for E-user and Network" and "Virtual Learning Environment",invited talks during Training Programme on Librarianship in Modern Times, Sardar Patel Institute of Public Administration (SPIPA), Ahmedabad, 26th and 28th November, 2014;

iii) "e-Learning", invited talk during Refresher Course on Use and Importance of Current Trends and Technologies in Modern Library, Dept of Library and Information Science and Academic Staff College, Gujarat University, Ahmedabad, 9th December 2014;

iv) "e-Learning in Current Context including MOOCs", invited lecture during seven-day National Workshop for Physical Educationalist on Use of Computer Application, Swarnim Gujarat Sport University and H L College of Commerce, Ahmedabad, 21st December, 2014;

17.6. Mr. Swapnil Patel, Scientist B (CS)

Mr. Swapnil Patel was invited to deliver a lecture on "Institutional Repository using DSpace" during Training Programme on "Technology Implementation in Libraries in New Era" organized by Sardar Patel Institute of Public Administration (SPIPA), Ahmedabad, 3rd June, 2014.

17.7. Ms. Kruti Trivedi, Scientist B (LS)

Ms. Kruti Trivedi was invited to deliver a lecture on "e-Consortia-based Subscription" during Library Users Orientation programme at Gujarat University, Ahmedabad on 8th August, 2014. She delivered an invited talk on"Bibliometric and Research Output Analysis" during Refresher Course on Use and Importance of Current Trends and Technologies in Modern Library organised by Dept of Library and

Information Science and Academic Staff College, Gujarat University, Ahmedabad, 25th December 2014.

17.8. Mr. Dinesh Ranjan Pradhan, Scientist B (LS)

Mr. Dinesh Ranjan Pradhan, Scientist B (LS) delivered an invited lecture on e-resource management during Refresher Course on Use and Importance of Current Trends and Technologies in Modern Library organised by Dept of Library and Information Science and Academic Staff College, Gujarat University, Ahmedabad, 10th December 2014.

17.9. Mr. Miteshkumar Pandya, Scientist B (LS)

Mr. Miteshkumar Pandya, Scientist B (LS) delivered invited lectures on Copy Cataloguing and Reference Management Software-Mendeley during Refresher Course on Use and Importance of Current Trends and Technologies in Modern Library' organised by Dept of Library and Information Science and Academic Staff College, Gujarat University, Ahmedabad, 10th and 11th December 2014.

18. Ongoing Projects@INFLIBNET Centre

18.1. e-PG Pathshala

The MHRD, under its National Mission on Education through ICT (NME-ICT) has allocated funds to the UGC for development of e-content in 77 subjects at postgraduate level. One subject comprises of 16 papers and each paper consist 30-35 e-modules, i.e. equivalent to 40 hour lectures. This is a first of its kind single largest extensive project, in terms of number of modules to be developed and subjects to be covered in India. High quality, curriculum-based and interactive contents are being developed in different subjects across all disciplines of social sciences, arts, fine arts and humanities, natural & mathematical sciences, linguistics and languages under this initiative named e-PG Pathshala. The e-PG Pathshala is described in detail at 9.1.

18.2. e-Acharya: Integrated e-Content Portal

A portal to host all e-content project, developed / funded under the National Mission of Education through ICT is developed by the INFLIBNET Centre under the initiative called "e-Acharya: Integrated e-Content Portal". There are more than 70 projects on e-content under NME-ICT which are developed/ being developed in various subject disciplines including Science, Arts, Engineering, Social Science, etc. by various Indian institutes/universities/colleges. The e-Acharya: Integrated e-Content Portal is described in detail at 9.2.

18.3. Institutional Repository for National Institute of Occupational Health (NIOH)

The project involved creation of institutional repository for NIOH, an institute of ICMR. The Centre customized DSpace installation to suite all the requirements of NIOH. The interface was customised to import records from "csv" files. The layout has been customized as per the requirement given by NIOH. Manpower training was also part of this project. The project was completed during Financial Year 2014-2015.

18.4. Upgradation and Security Enhancement of Repository of NASDO (Goa), Indian Navy

The Centre has executed this project for Indian Navy during the year under report. The project involved upgradation and security enhancement of repository of NASDO (Goa), Indian Navy. The latest version of DSpace was installed and data was re-stored to incorporate security features to the database and server. The project was completed during the Financial Year 2014-15.

18.5. Hosting of Institutional Repository of Ganpat University

The Centre is providing "hosting service for Institutional Repository at newly established data centre". Under the project, The Centre has provided web space and domain name to host Institutional repository of Ganpat University. The hosting service was initially given for Financial Year 2014-15 and renewed for the Financial Year 2015-16.

18.6. Maintenance Service of Automotive Research Association of India, Pune

The project involved annual maintenance service of Institutional repository of ARAI, Pune. Under the project the Centre provides services for version upgradation of DSpace, log maintenance, statistics generation and data backup service. The project is on-going for Financial Year 2015-16.

18.7. Institutional Repository of Doon University, Dehradun

The project involved creation of institutional repository for Doon University, Dehradun. Installation of DSpace and basic customization service is being provided under the project. The project is on-going for Financial Year 2015-16.

18.8. Institutional Repository of IUCAA, Pune

The project involved creation of institutional repository for IUCAA, Pune. Version Upgradation of DSpace and customization service will also be provided under the project.The project is on-going for Financial Year 2015-16.

PART - III

International and National Conference, Workshops, Seminars and Training Programme

1. 10th International CALIBER 2015, Himachal Pradesh University and Indian Institute of Advanced Study (IIAS), Shimla, 12th-14th March, 2015

The 10th International CALIBER 2015 was organised by Himachal Pradesh University and Indian Institute of Advanced Study (IIAS), Shimla in collaboration with INFLIBNET Centre, Gandhinagar at Hotel Peterhoff, Shimla from 12th to 14th March 2015 on the theme "Innovative Librarianship: Adapting to Digital Realities". The main theme of the Convention was divided into three sub-themes i.e. i) Scientometrics, Bibliometrics, Webometrics & Altmetrics; ii) e-Learning & Open Online Courses; and iii) Library 3.0. 21 publishers participated in the exhibition arranged as part of the Convention. More than 250 delegates registered for the Convention including delegates from Sri Lanka, UK and USA. Out of 194 submissions, 57 papers were selected for presentations and 50 papers were selected for poster presentations.

1.1. Inaugural Session

Prof. P. K. Ahluwalia, Dean, Planning & Teachers Matters, H. P. University and Organizing Secretary welcomed the dignitaries on the dais as well as guests and participants. Mr. Prem Chand, Librarian, IIAS and Joint Organizing Secretary introduced the CALIBER and its brief history. Prof. S. V. Raghavan, Scientific Secretary, Office of the Principal Scientific Adviser to the Government of India inaugurated the Convention. He briefly outlined revolutionary developments that are taking place in the area of information creation, acquisition, access, and dissemination. He emphasized that innovation and invention are two sides of the same coin. He compared Dr. S. R. Ranganathan as Albert Einstein of library & information science. He touched upon many areas such as the use of term digital asset, creation of grid of people for exchange of every type of document and data, the story of National Knowledge Network as an example of using ICT for the mankind in general as well as specialists. Dr. Jagdish Arora, Director, INFLIBNET Centre emphasized on changing role of libraries and library professionals in today's self-serving electronic environment and implementation of return over investment (ROI) in libraries and information centres.

Dr. Usha Mujoo Munshi, Librarian, Indian Institute of Public Administration was Convention Director. She highlighted the main features of the present Convention. She presented a glimpse of new tools and technologies that are instrumental in transforming libraries to learning spaces. Prof. Chetan Singh, Director, IIAS gave a lucid account of his apprehensions about usage of electronic resources in preference to printed books & journals. From a user point of view, he pointed out that the users need to change to information literates.

Fig. 44: Prof. P. K. Ahluwalia, Dean, Planning & Teachers Matters, Prof. A. D. N. Bajpai, Vice-Chancellor, H P University, Prof. Ajit Kembhavi, Director, IUCAA, Dr. S V Raghavan, Scientific Secretary, Office of the Principal Scientific Adviser to the Government of India, Dr. Jagdish Arora, Director, Mr. Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre, Dr. Usha Mujoo Munshi, Librarian, Indian Institute of Public Administration, Prof. Chetan Singh, Director and Mr. Prem Chand, Librarian, IIAS on the dais during Inaugural Session of CALIBER 2015

Prof. A. D. N. Bajpai, Vice-Chancellor, H. P. University, with his experience as a teacher, researcher, and educational manager lamented on the lack of reading habit amongst students, researchers as well as teachers. Prof. Ajit Kembhavi, Director, Inter-University Centre for Astronomy and Astrophysics (IUCAA) delivered keynote address during the Convention. Prof. Kembhavi discussed the environment of research and researchers in India, he traced the changes from the physical form of document to its electronic version and suggested an information schema with multi-dimensional approach to provide pin-pointed and exhaustive information. Prof. Kembhavi shared his belief with the audience that "good research needs good libraries". He touched upon various achievements of the INFLIBNET Centre and its role in associating with other institutions / consortia and praised the INFLIBNET Centre for its laudable achievements in strengthening the LIS network, resource sharing and enabling users' access to a vast amount of information, empowering users through its human resource development programmes throughout the country.

Dignitaries on the dais released proceedings of International CALIBER 2015, CD and Convention Souvenir published on the occasion. Mr. Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre and

Convener of the Convention extended a warm vote of thanks. Dr. Pawan Kumar Gupta, Consultant & Trainer, DLIS, University of Rajasthan was the Rapporteur General of the Convention.

1.2. Tutorials

Prof. A. D. N. Bajpai, Vice Chancellor, H. P. University inaugurated the programme in presence of Prof. R. S. Chauhan, Director, Physical Education, Prof. P. K. Ahluwalia, Dean, Planning & Teachers Matters, H. P. University, Mr. Prem Chand, Librarian, IIAS, Dr. Jagdish Arora, Director and Mr Ashok Kumar Rai, Scientist- D (CS), INFLIBNET Centre at University Auditorium, Himachal Pradesh University, Shimla on 12th March, 2015. Dr. Arora gave an introduction to the theme and relevance of topics of the tutorials. Prof. A. D. N. Bajpai emphasised on the concept of e-learning and preservation of traditional knowledge and creation of local content for institutional repositories.

Pre-convention tutorials were delivered on "Bibliometrics and Research Performance Measurement of Indian Universities" by Ms. Sarah Huggett, Manager, Elsevier Analytical Services and "Understanding and Avoiding Plagiarism in Research" by Mr. James Thorley, Director of International Sales, Turnitin for the benefit of participants of the Convention.

1.3. Technical Sessions

The presentations in the Convention were organized into 6 technical sessions, wherein 46 presentations were made including presentations on the theme papers and 10 commercial product presentations made by their respective representatives as shown in Table 19 and Figure 45:

Technical Session	Theme of the Session	Chairperson	Co-Chairman/ Rapporteur	Theme Speakers/ Invited Speakers
Session 1	Scientometrics, Bibliometrics, Webometrics, and Altmetrics (Part-1)	Mr. Rajkumar, Librarian, Panjab University, Chandigarh	Ms. Jyoti Bhatt, M. S. University of Baroda, Baroda	Mr. Peter Burnhill, Director, EDINA, JISC/UK and Head, Edinburgh University Data Library, Edinburgh and Dr. Evangelia A.E.C. Lipitakis, Research Analytics Consultant, Thomson Reuters
Session 2	Scientometrics, Bibliometrics, Webometrics, and Altmetrics (Part-2)	Dr. Gayas Makhdumi, Librarian, Jamia Millia Islamia, New Delhi	Dr. Manorama Tripathi, Dy. Librarian, JNU, New Delhi	Ms. Kathleen Shearer, Executive Director, Confederation of Open Access Repositories (COAR) & Research Associate, CARL & RDC and Ms. Kate Vasili, Copyright Officer, Middlesex University, Sheppard Library, London
Session 3	e-Learning and	Dr. A. K.	Dr.	Mr. Prashant Arya and

	Open Online Courses (Part-1)	Sharma, Librarian, Assam University, Silchar	Lalremsiami, Central Library, Mizoram University, Aizawl	Mr. Ashwani Sharma, Google
Session 4	e-Learning and Open Online Courses (Part-2)	Dr. I. V. Malhan, Head, DLIS, Central University of Himachal Pradesh, Kangra	Mr. Rajesh Singh, Dy. Librarian, University of Delhi, Delhi	Dr. Uma Kanjilal, Professor, DLIS, Indira Gandhi National Open University (IGNOU), New Delhi
Session 5	Library 3.0 (Part-1)	Dr. Samyuktha Ravi, Librarian, Pondicherry University, Punducherry	Dr. P. S. Kattimani, Dy. Librarian, Central University of Karnataka, Gulbarga	Dr. H. Anil Kumar, Librarian, IIM Ahmedabad; Prof. Karmeshu, JNU, New Delhi and Mr. John Lenahan, JSTOR, New York
Session 6	Library 3.0 (Part-2)	Dr. M. K. Bhandi, Librarian, Mangalore University, Mangalore	Dr. J. Shivarama, Asst. Professor, DLIS, Tata Institute of Social Science, Mumbai	Dr. Mandy Taha, Open Access Consultant, Egypt and Dr. J.K. Vijayakumar, University Library, KAUST, Saudi Arabia

Table 19: Chairpersons, Co-Chairman/Rapporteur and Theme Speakers of the Sessions
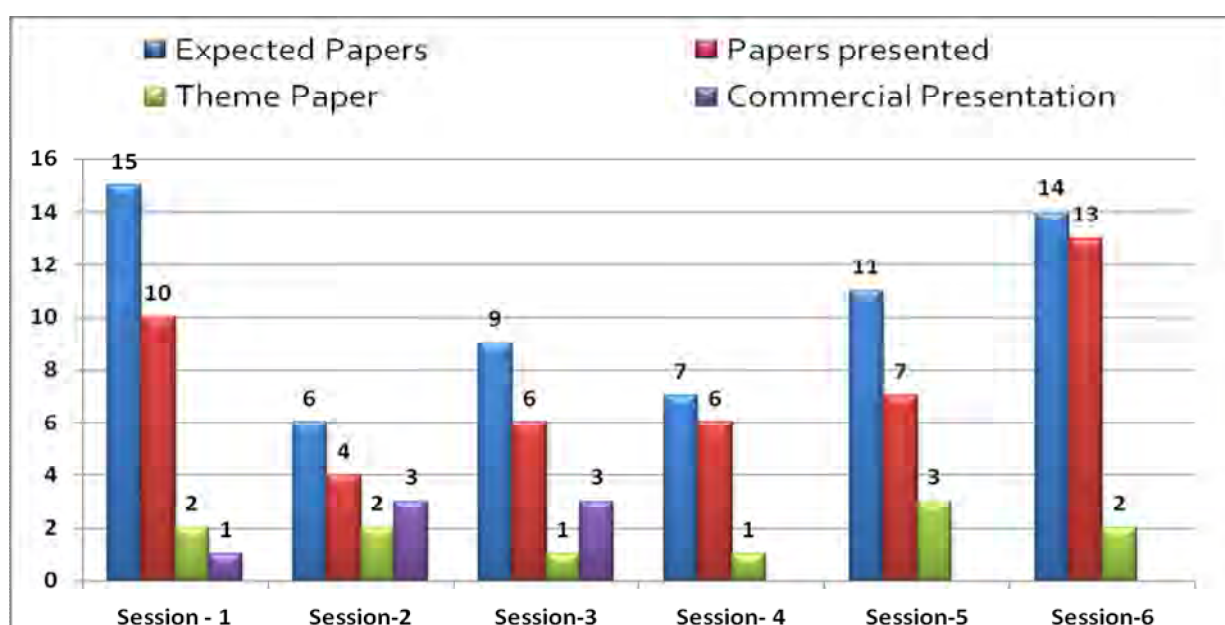
Fig. 45: Research and Commercial Presentations

1.4. Panel Discussion

A panel discussion on the theme of the Convention "Innovative Librarianship: Adapting to Digital Realities" was organized prior to the concluding session of Convention. Dr. Arun Kumar Chakraborty, Director General, Raja Rammohun Roy Library Foundation (RRRLF), Dr. Jagtar Singh, Head, DLIS, Punjabi University, Dr. Ramesh Gaur, University Librarian, Jawaharlal Nehru University, Dr. R. K. Chadha, Additional Secretary, Parliament of India and Dr. Samyuktha Ravi, Librarian, Pondicherry University were panelists for the session. The panel discussion was followed with lively discussions between panelists and participants.

1.5. Valedictory Session

During valedictory function, Dr. Usha Mujoo Munshi, Convention Director, presented an overview of the Convention and Dr. Pawan Kumar Gupta, Rapporteur General of the Convention presented a brief report and major recommendations of the Convention. Dr. R. K. Chadha, Additional Secretary, Parliament of India and Dr. Jagdish Arora, Director INFLIBNET Centre presented their views on the achievements of the Convention. Prof. Chetan Singh, Director, IIAS, in his address spoke about rapidly changing environment and its impact upon users' behaviour, media types' information resources and accessibility. As a token of gratitude mementos were presented to the dignitaries on this occasion. Mr Prem Chand, Joint Organising Secretary and Mr Ashok Kumar Rai, Convenor of the Convention presented mementos to key personnel who contributed to the success of the Convention and extended a warm vote of thanks to all concerned at the end of the Convention.

1.6. Recommendations of the Convention

The following recommendations emerged from the discussions and deliberations during the Convention:

i)   The quality of higher education in India can be improved using e-learning platforms. The INFLIBNET Centre should convert its e-PG Pathshala content into MOOCs environment in association with universities and research institutions. Moreover, content should also be created on traditional and ancient knowledge of India on various subjects.

ii) The INFLIBNET Centre should conduct studies on Return on Investment (RoI) in Indian environment. Moreover, the Centre should also set-up policies and parameters for benchmarking of libraries and information centres in universities, research institutions and institutions of national importance.

iii) India should have a well-defined anti-plagiarism policy to improve quality of higher education and research in India. The Centre should launch plagiarism literacy campaign in universities and research institutions and mandate submission of electronic version of theses and

dissertations into Shodhganga and other ETD repositories only after content of doctoral dissertations are subjected to plagiarism detection software.

iv)   Library & information centres should increasingly use social networking sites to connect to their clientele and involve them in designing library services and activities.

v)   Funds for research should be allocated to universities based on their research performance. As such, benchmarking among research intensive universities should be done regularly and funds should be allocated only to research intensive universities for furthering their research and development activities.

vi)   MHRD must set-up a National Research Evaluation Programme at national and institutional level. The universities and other educational institutions should be encouraged to carry out in-house research evaluation to measure impact of their research programmes and adopt measures for resource allocation within universities.

vii) Tools and techniques of altmetrics should be deployed by LIS personnel to measure impact at articles level within an organisation. These tools and techniques should be embedded into institutional repositories and content management systems facilitating authors to view impact of their research work.

viii) India as a nation should endorse open access (OA) policy and mandate submission of research articles into institutional repositories in every universities and research institutions.

ix)   Tenets on digital preservation and archiving should be adopted at national level. Various methods of digital preservation such as local archiving, LOCKS, CLOCKSS and Portico may be deployed as archival solution.

x)   The INFLIBNET Centre should come up with a model national licence agreement for e-resources to strike a balance between the interests of publishers and libraries. Libraries should get their license agreement vetted by Legal Cell of their parent organisation before signing it..

xi)   The LIS professionals should redefine their roles in the changing scenario and contribute proactively towards building world-class universities, influencing policy decisions, providing proactive help to researchers for research funding and reaching out to the unreached through mobile applications.

2. 9th PLANNER 2014, Dibrugarh University, Dibrugarh, 25th – 27th September, 2014

The 9th PLANNER 2014 (Promotion of Library Automation and Networking in North Eastern Region) was organised by the INFLIBNET Centre in collaboration with Dibrugarh University, Dibrugarh on the theme "Capacity Building in Library and Information Services" from 25th to 27th September 2014. The main theme of the convention was divided into three sub-themes, namely i) Capacity building through Collaboration; ii) Institutional Capacity Building; and iii) Role of ICT in Capacity Building. The Convention was attended by more than 185 delegates and invitees from all over the country. 12 publishers participated in the exhibition arranged as part of the Convention. Out of 114 submissions, 45 papers were selected for presentation and 17 papers were selected for poster presentations.

2.1. Inaugural Session

Dr. Utpal Das, Deputy Librarian & Librarian I/C, Dibrugarh University and Organizing Secretary 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. He also informed that INFLIBNET Centre has organized PLANNER Convention in almost every state in North-Eastern region except in Tripura and Arunachal Pradesh. Dr. Arora highlighted that the information seeking behaviour of the user in ICT environment has changed dramatically. He urged all professionals to understand and assess the requirement of the users and offer effective services. The Convention was inaugurated by Prof. Alak Kumar Buragohain, Hon'ble Vice-Chancellor, Dibrugarh University. In his inaugural address, he recalled his love for books and libraries from his school days. He emphasized that ICT should be used to connect the traditional and modern library. He further emphasized that libraries should take initiatives to preserve enormous content that have been ignored by the traditional libraries because of lack of technological tools. He suggested that e-resources and ICT should be used to restructure teaching and learning. Dr. R. K. Chadha, Additional Secretary, Parliament of India, in his address, emphasized that the libraries should use community radio and social media to promote library services to reach out to the users in this digital era.

Fig. 46: Dr. Utpal Das, Deputy Librarian & Librarian I/C, Dibrugarh University, Dr. R K Chadha, Additional Secretary, Parliament of India, Mrs. Kalpana Dasgupta, Former Librarian, National Library, Dr. Jagdish Arora, Director and Mr. Abhishek Kumar, Scientist C (CS), INFLIBNET Centre Released the Printed Proceeding of the Convention during the Inaugural Session

Smt. Kalpana Dasgupta, Former Librarian, National Library and Former Director, Centre Secretarial Library, in her keynote speech, expressed concerns about the current status of LIS education and LIS profession in the country and emphasized on improving the quality of library services. She also emphasized that the professionals should develop leadership qualities and reiterated that the librarian should be good administrator. She gave mantra of three 'F' to become good administrator in libraries, i.e. Fear, Firm and Friendly. She urged the professionals to strive hard to change the image of the library profession. She spoke on range of other issues such as the need to frame the digital library policy, revamping the LIS education, content analysis, etc.

Dr. Khomdon Singh, Librarian, Manipur University, Imphal was Convention Director. Mr. Prem Chand, Librarian, Indian institute of Advance Study, Shimla was the Rapporteur General of the Convention. Mr. Abhishek Kumar, Scientist C (CS), INFLIBNET Centre & Convener of the Convention extended a warm vote of thanks to the invitees, participants, authorities of university and experts on behalf of INFLIBNET Centre.

Dr. Jagdish Arora, Director, INFLIBNET Centre released the printed Proceedings of the Convention and Dr. R K Chadha, Additional Secretary, Parliament of India, released Conference CD as shown in Figure 46. On this occasion a book written by Prof. Subarat Borgohain entitled "Enhancing Oil Recovery Techniques" published by Oxford University Press was also released.

2.2. Tutorials

Pre-convention tutorials were delivered on "SOUL 2.0" and "Digital Library using Dspace" on 25th September 2014 for the benefit of participants of the Convention. The tutorial on "SOUL 2.0" was delivered by Mr. Yatrik Patel, Scientist D (CS) and Mr. Divyakant Vaghela, Scientist B (CS), INFLIBNET Centre and "Digital Library using Dspace" was delivered by Mr. Manoj Kumar K, Scientist D (CS), INFLIBNET Centre. Mr. Sanjay Grover, Informatics India Ltd. gave commercial presentation on "JGate Plus" during the tutorials.

2.3. Technical Sessions

The theme papers were presented by invited theme speakers during the Technical Sessions as mentioned below in Table 20:

Sl. No	Theme	Topic	Theme Speaker
1	Capacity Building through Collaboration	Capacity building in digital libraries	Dr. Dinesh Kumar Gupta, Vardhman Mahavir Open University , Kota
2	Capacity Building through Collaboration	Emerging trends in libraries in new ecosystem: A librarians view	Dr. H. Anil Kumar, Librarian, IIM, Ahmedabad
3	Institutional Capacity Building	The future of academic librarians	Dr. B. Sutradhar, Librarian, IIT, Khargpur
4	Role of ICT in Capacity Building	Role of ICT in capacity building	Dr. Bhibuti Bhusan Sahoo, Deputy Librarian, IIT Bhubaneswar, Odisha

Table 20: Invited Experts with their Topics of Presentation

There were 5 technical sessions held during the convention wherein 22 papers were presented on various themes as per the details given below in Table 21:

Sessions	Theme	Chairperson	Co-chairman/ Rapporteur	No. of Papers Presented
Session 1	Capacity Building through Collaboration	Dr. Mukesh Saikia, Librarian, Tezpur University, Tezpur	Sh. Sadananda Nath, Librarian, Teensukhia Commerce College	5
Session 2	Capacity Building through Collaboration	Dr. Sanjay Kumar Singh, Associate Professor, DLIS, Gauhati University, Guwahati	Mr. Lal Chatuana, Librarian, Govt. Hrangbana College, Aizwal	3
Session 3	Institutional Capacity Building	Prof. Bikikia Laloo, Head DLIS, NEHU Shillong	Dr. Anil Kumar Gupta, Deputy Librarian,	4

Session 4	Institutional Capacity Building	Mr. Ashok Kumar Rai , Scientist D (CS), INFLIBNET Centre, Gandhinagar	Mr. J. Shivarama, Assistant Prof, TISS, Mumbai	3
Session 5	Role of ICT in Capacity Building	Dr. Pawan Kumar Gupta, Adjunct Professor, DLISc, University of Rajasthan, Jaipur	Dr. Zomuana Joute, Librarian, Aizwal North College, Aizwal	7

Table 21: Chairpersons and Rapporteurs of the Sessions

2.4. Panel Discussion

A panel discussion on the theme of the Convention "Capacity Building in Library and Information Services" was organized prior to the concluding session of Convention. Dr. R. K. Chadha, Additional Secretary, Parliament of India chaired the panel discussion with Dr. Jagdish Arora, Director, INFLIBNET Centre, Prof. N. N. Sharma, Gauhati University, Guwahati, Prof. Bikika Lallo, HOD, NEHU, Shillong and Dr. Pawan Kumar Gupta, Adjunct Prof. DLIS, University of Rajasthan, Jaipur were panelists for the session. Dr. R. K. Chadha welcomed the panelists and raised issue of connectivity in the north-eastern region. Thereafter, the panelists deliberated and discussed on emerging issues on the themes of the conference. Dr. Bikika Lallo thanked the INFLIBNET Centre for organising PLANNER and she expressed proudly that NE region's professionals are adopting the new technology in the libraries.

2.5. Valedictory Session

The Valedictory Session was chaired by Dr. Jagdish Arora, Director, INFLIBNET Centre. Dr. Deepak Chatia, Chairman, Library Committee, Dibrugarh University was the Chief Guest of the Valedictory Session. Mr. Prem Chand, Rapporteur General of the Convention presented a detailed report on the proceedings of the convention. Dr. Deepak Chatia, in his address delved upon the changing roles of librarians in the ICT era. Dr. Khondom Singh, Librarian, Manipur University and Convention Director expressed his views on the conference theme and shared his ideas with the delegates. Dr. Utpal Das, Organizing Secretary extended a warm the vote of thanks on behalf of Dibrugarh University.

2.6. Recommendations of the Convention

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

i) There is growing impetus on the availability of OSS and open access resources. The deliberation
   in the conference reveals that pace of implementation of such software is very slow in colleges in North Eastern region. In order to intensify and create local content, it is imperative

that all the colleges in the region should create and explore the creation of IR in their respective colleges.

ii) A training programme in this direction is need of the hours. It was therefore, proposed that INFLIBNET Centre should design special training programme on digitisation and open source software exclusively for the library professionals working in North East India.

3. National Conference on Electronic Theses and Dissertations (ETDs), INFLIBNET Centre, 22nd-23rd January, 2015

The INFLIBNET Centre organised 2nd National Conference on Electronic Theses and Dissertations (ETDs) from 22nd to 23rd January, 2015 at INFLIBNET Centre, Gandhinagar. Mr. Manoj Kumar K. Scientist D (CS), INFLIBNET Centre welcomed the guests and participants. Prof. S.A. Bari, Vice-Chancellor, Central University of Gujarat, Gandhinagar inaugurated the programme with lighting the ceremonial lamp in presence of Dr. Jagdish Arora, Director, INFLIBNET Centre, Dr. Ramesh Gaur, Librarian, Jawaharlal Nehru University, New Delhi, Mr. Manoj Kumar K, Scientist D (CS) and Mr. Gaurav Prakash, Scientist B (CS), INFLIBNET Centre as shown in Figure 47. In his inaugural address, Prof. S. A. Bari emphasized on the importance of research ethics as well as academic integrity in research. He emphasized that the research should lead to applications, products and services which should help the common man in solving their issues. Prof. Bari uploaded 30,000th thesis into Shodhganga during the inaugural session. Dr. Jagdish Arora, Director, INFLIBNET Centre delivered keynote address. Dr. Ramesh Gaur, Librarian, JNU introduced International Conference on ETDs that would be jointly organised by Jawaharlal Nehru University, New Delhi and INFLIBNET Centre in association with NTLTD. Mr. Gaurav Prakash, Scientist B (CS) expressed vote of thanks at the end of the inaugural function.

Fig. 47: Prof. S A Bari, Vice-Chancellor, Central University of Gujarat lighting the lamp in presence of Dr. Ramesh Gaur, Librarian, Jawaharlal Nehru University, New Delhi, Dr. Jagdish Arora, Director, Mr. Manoj Kumar K, Scientist D (CS) and Mr. Gaurav Prakash, Scientist B (CS), INFLIBNET Centre during the Inauguration of National Convention on ETDs.

The technical sessions started with various presentations and discussions. More than 60 participants from various universities/ institutes such as Jawaharlal Nehru University, Mahatma Gandhi University, Gauhati University, Cochin University of Science & Technology, Pondicherry University, University of Delhi, IIT Gandhinagar, Bundelkhand University, West Bengal National University of Juridical Sciences, and Anna University attended the programme. Prof. Jai Rup Singh, Founder Vice-Chancellor of Punjab and Former Member, Governing Board, INFLIBNET Centre delivered the valedictory address. Prof. Jai Rup Singh and Dr. Jagdish Arora distributed certificates to the participation at the end of the programme.

4.   Training Programmes on Installation and Implementation of the SOUL Software at INFLIBNET Centre

The INFLIBNET Centre provides Orientation Training Programme on Installation and Implementation of the SOUL Software. The programme is specially designed for imparting training to new users of SOUL software. The morning sessions of the programme are devoted to theoretical lectures and demonstrations, while the afternoon sessions are completely earmarked for "hands-on" practice. The "hands-on" practical sessions are conducted in well-equipped computer laboratory

under the guidance of trained staff members of the Centre. The course content of the programme is designed to cover the following topics:

i) INFLIBNET: Major Activities and Services
ii) SOUL – Administration and Overview
iii) SOUL - Catalogue Module
iv) SOUL - Acquisition Module
v) SOUL – Circulation Module
vi) SOUL – Serials Control Module
vii) SOUL- OPAC, WebOPAC, Installation and Backup

Generally, two participants from every user institution of SOUL software are invited to join this training programme, one each with computer and library science background. As on 31st March 2015, total no. of 118 such training programmes were organized at the Centre. During the period under report, 6 training programmes were organized to impart training to 120 participants from different institutions as shown in Table 22 given below.

Sl. No.	Name of Training Programmes	Period	No. of Participants
1	113th SOUL Training Programme	16th- 20th June, 2014	19
2	114th SOUL Training Programme	04th- 08th August, 2014	17
3	115th SOUL Training Programme	01st - 06th September, 2014	20
4	116th SOUL Training Programme	01st - 06th December, 2014	17
5	117th SOUL Training Programme	08th- 12th December, 2014	26
6	118th SOUL Training Programme	16th - 21st February, 2015	21
	Total		**120**

Table 22: SOUL Training Programmes Organized at the INFLIBNET Centre during 2014-2015

5. INFLIBNET Regional Training Programme on Library Automation

5.1. INFLIBNET Regional Training Programme on Library Automation, M. S. University of Baroda, Vadodara, 17th-22nd June, 2014

The Centre organised five-day Regional Training Programme on Library Automation (IRTPLA) in collaboration with M. S. University of Baroda, Vadodara from 17th to 21st June, 2014 at Smt. Hansa Mehta Library. Prof. Uma Joshi, Dean, Faculty of Family and Community Sciences, MSU and Dr. Jagdish Arora, Director, INFLIBNET Centre were Chief Guests for the inaugural function. Dr. Mayank Trivedi, University Librarian, welcomed the guests and participants. He briefed about IRTPLA Programme and its importance and relevance in present scenario. Dr. Trivedi proposed to Dr. Arora to promote Smt. Hansa Mehta Library as INFLIBNET's Centre of Excellence for Information sources

in Western India in the context of e-content. Dr. Jagdish Arora elaborated on INFLIBNET Centre's services & activities and how universities and colleges were benefited through various projects of the Centre.

Ms. Jyoti Bhatt, Assistant Librarian, spoke about achievements of Smt. Hansa Mehta Library and its future projects. Prof. Uma Joshi shared her reminiscence about Smt. Hansa Mehta Library from her days as student at the University and as a teaching faculty at the University. She was happy that the University Library is among top 22 university libraries recognized as Document Delivery Service of the INFLIBNET Centre. She congratulated Dr. Mayank Trivedi and his entire team for their contribution in the development of the Library. Mrs. Celine Joseph, Technical Assistant, Smt. Hansa Mehta Library extended a warm vote of thanks at the end of the session.

Mr. Manoj Kumar K. and Mr. Yatrik Patel, Scientists D (CS) and Ms. Kruti Trivedi, Scientist B (LS) from INFLIBNET Centre, Prof. R G Kothari, Dean, Faculty of Education & Psychology, Prof. Vishwas Raval, Assistant Professor, Dept of Computer Sci & Eng, Dr. Apoorva Shah, Honorary Director, Computer Center and Mr. Vijay Parmar, Programmer, Smt Hansa Mehta Library from M S University, Dr. Ranjita Dash, Librarian from Babaria Institute of Technology, Vadodara, Mr. Bharat Chaudhary, Assistant Librarian from Pandit Deendayal Petroleum University (PDPU), Gandhinagar, Dr. H AnilKumar, Librarian from IIM, Ahmedabad and Dr. K H Shukla , Director, Learning Resource Centre from Sumandeep Vidyapith University, Waghodia were experts for the training programme. Theoretical lectures were followed by "hands-on" practice on various module of the SOUL software. All the practical sessions of the Training Programme involved intensive discussions and interactions on various aspects of SOUL software between participants and the resource persons. Mr. Swapnil Patel, Scientist B (CS), Mr. Vijay Shrimali, STA (CS) and Mr. Kamlesh Vegad, Project Officer (LS), INFLIBNET Centre were resource persons during practical sessions.

Prof. R G Kothari, Professor and Dean, M. S. University of Baroda delivered a lecture during valedictory session. Mr. Manoj Kumar K, Scientist D (CS) delivered concluding remarks at the end of programme. Participants also gave their feedback on the format of training programme. 26 participants and 20 library staff members participated in the training programme.

5.2. INFLIBNET Regional Training Programme on Library Automation, University of Lucknow, Lucknow, 16th -20th March, 2015

INFLIBNET Regional Training Programme on Library Automation (IRTPLA) was organised by University of Lucknow in collaboration with INFLIBNET Centre, Gandhinagar from 16th to 20th March, 2015 at Tagore Library, University of Lucknow, Lucknow. Dr. Jyoti Mishra, Deputy Librarian coordinated the programme and welcomed the guests and participants. Dr. S. B. Nimse, Hon'ble Vice-Chancellor, University of Lucknow inaugurated the programme with lighting of traditional lamp along with Prof. U. N. Dwivedi, Pro-Vice Chancellor, Dr. Jyoti Mishra, Deputy Librarian, Dr. Pravish

Prakash, Assistant Librarian, University of Lucknow and Mr. Gaurav Prakash, Scientist B (CS), INFLIBNET Centre.

The technical sessions started with presentation on "INFLIBNET Centre's Activities and Services" by Mr. Gaurav Prakash, Scientist B (CS) followed by presentation on "SOUL 2.0 Overview" by Mr. Vijay Shrimali, STA (CS), INFLIBNET Centre. Theoretical lectures were followed by "hands-on" practical sessions on various modules of SOUL Software. All the practical sessions of the Training Programme involved intensive discussions and interactions on various aspects of SOUL software between participants and the resource persons. Mr Vijay Shrimali, STA (CS), Mr. Neeraj Kumar and Mr Subodh Bajpai, SOUL Technical Assistants, INFLIBNET Centre were resource persons.

During Technical Sessions, Dr. D. K. Singh, Deputy Librarian, Banaras Hindu University, Varanasi shared his experience on implementation of SOUL software in the Central Library of BHU. He gave useful suggestions to participants regarding library automation. Dr. J. A. Siddiqui, Head, DLIS & Deputy Librarian, Meerut University discussed issues and challenges of library automation with participants. Dr. M. U. Raja, Deputy Librarian, IIM Library, Lucknow shared his experience about automation of IIM Library. He also discussed about usage of e-resources available in IIM library. Prof. Rashmi Pandey, Dean, Faculty of Arts, University of Lucknow presided over the valedictory function. Dr. Pravish Prakash, Assistant Librarian, University of Lucknow extended a warm vote of thanks at the end of the programme. Around 36 library professionals including librarians with working knowledge in computers from universities, colleges and other institutes of Lucknow participated in the training programme.

5.3. INFLIBNET Regional Training Programme on Library Automation, Kavikulguru Kalidas Sanskrit University, Ramtek, Nagpur, 23rd- 27th March, 2015

INFLIBNET Regional Training Programme on Library Automation (IRTPLA) was organised by Kavikulguru Kalidas Sanskrit University in collaboration with INFLIBNET Centre, Gandhinagar from 23rd to 27th March, 2015 at Administrative Building, Kavikulaguru Kalidas Sanskrit University, Ramtek, Nagpur. Dr. Deepak Kapade, University Librarian (Acting) coordinated the programme and welcomed the guests and participants. Dr. Uma Vaidya, Hon'ble Vice-Chancellor inaugurated the programme. Dr. Arvind Joshi, Registrar was Coordinator of the programme. Mr. Miteshkumar Pandya, Scientist B (LS), INFLIBNET Centre was Chief Guest of the programme. 33 library professionals from various universities such as Sant Gadgebaba Amravati University, Amravati, Rashatrasanta Tukdoji Maharaj Nagpur University, Nagpur, Gondwana University, Gadchiroli, Kavikulagura Kalidas Sanskrit University, Ramtek and School librarians from Nagpur participated in the programme.

Mr. Miteshkumar Pandya, Scientist-B (LS) from INFLIBNET Centre, Dr. Shalini Lihitkar, Associate Professor and Dr. Mangala Hirwade, HOD, DLIS from RTM Nagpur University, Nagpur, Dr. Ram Joshi, Finance Officer, Dr. Vijay Kumar, Director BPD and Dr. Deepak Kapade, Librarian from KKSU, Ramtek, Dr. R. M. Deshpande, Assistant Librarian from Vishveshwaraya National Institute of

Technology, Nagpur and Mr. Anja Reddy, Librarian from Kavikulaguru Institute of Technology and Sciences, Ramtek served as faculty for the training programme. Theoretical lectures were followed by "hands-on" practice on various modules of SOUL Software. All the practical sessions of the Training Programme involved intensive discussions and interactions on various aspects of SOUL software between participants and the resource persons. Mr. Kamlesh Vegad, Project Officer (LS), Mr. Mayur Gohel, Project Associate (CS) and Mr. Dattaraya Kalbande, SOUL Technical Assistant, SOUL Coordination Unit, Maharashtra & Goa District were resource persons. Dr. Vijay Kumar, Director, Board of Planning and Development, KKSU presided over the programme. Mr. Ritesh Meshram, Superintendent, KKSU Library extended a warm vote of thanks at the end of the programme.

6. SOUL 2.0 In-house/ Regional Training Programme

6.1. Two-day In-house Training Programme on SOUL 2.0, Bidhan Chandra College, Asansol, West Bengal, 5th -6th January, 2015

Two-day In-house Training Programme on SOUL 2.0 was organised by Bidhan Chandra College in collaboration with INFLIBNET Centre, Gandhinagar from 5th to 6th January, 2015 at Bidhan Chandra College, Asansol. Mr. Kamlesh Vegad, Project Officer (LS) and Ms. Nabila Shaikh, Project Officer (CS), INFLIBNET Centre were resource persons. While theoretical lectures were delivered in the morning sessions, afternoon sessions were devoted to "hands-on" practical on different modules of SOUL 2.0 software. It was an enriching experience for all the library staff of the college to get clarifications of their doubts during practical sessions on different modules. 9 staff members of the college attended the programme. Certificates of participation were distributed to all the participants by Dr. Gautam Banerjee, Principal, Bidhan Chandra College, Asansol. Mr. Biswajit Bhattacharya, Librarian coordinated the programme and extended a warm vote of thanks to the authorities at INFLIBNET Centre and the college at the end of the programme.

6.2. SOUL 2.0 Regional Training Programme, Jawaharlal Nehru Library, University of Mumbai, Mumbai, 7th - 11th July, 2014

The Centre organised five-day SOUL 2.0 Regional Training Programme in collaboration with University of Mumbai, Mumbai from 7th to 11th July 2014 at Jawaharlal Nehru Library of the University. The Programme was inaugurated by Dr. Vivek Patkar, an Independent Researcher and Guest Lecturer, University of Mumbai. In his inaugural speech, he suggested to plan one new activity every year as a modest resolution leading to improvement in existing library services and adding new services. He also suggested that while attending any such training programmes, participants must ask at least one or two questions in each session, after that participants should prepare a report on what they have learnt from the training programme and implement at least three things in their library. Ms. Nalini Raja, SOUL Coordinator, Mr. Kamlesh Vegad, Project Officer (LS) and Ms. Nabila Shaikh, Project Officer (CS), INFLIBNET Centre served as the resource persons. While theoretical

lectures were delivered in the morning sessions, afternoon sessions were devoted to the "hands-on" practical sessions on different modules of the SOUL 2.0 software. 28 participants attended the programme. Dr. (Ms) Kavita Laghate, I/C Director, Jamanalal Bajaj Institute of Management Studies (JBIMS), University of Mumbai delivered concluding remarks during valedictory function.

7.   Specialized Training Programmes and National Workshops

7.1.   National Workshop on Plagiarism: Issues and Challenges, Jawaharlal Nehru University, New Delhi, 23rd April, 2014

Jawaharlal Nehru University (JNU), New Delhi in collaboration with INFLIBNET Centre, Gandhinagar organized One-day Workshop on Plagiarism: Issues and Challenges on 23rd April, 2014. The National Workshop provided a forum to the experts and researchers to deliberate upon various issues related to plagiarism. The inaugural session was graced by Prof. S. K. Sopory, Vice-Chancellor, Jawaharlal Nehru University, Mr. Ashok Thakur, Secretary, Higher Education, Government of India, Prof. K. L. Chopra, President, IIT Kharagpur, Dr. Jagdish Arora, Director and Mr. Manoj Kumar K., Scientist-D (CS), INFLIBNET Centre.

Dr. Ramesh C. Gaur welcomed the delegates and dignitaries and apprised them of the content, aims and objectives of the Workshop. He emphasized that Workshops of such kind are necessary to sensitize the students, researchers and faculty members to the importance of proper academic conduct.

Prof. S. K. Sopory, Vice-Chancellor elaborated on different forms of academic misconduct (fabrication, falsification of data and plagiarism) which was growing in higher education. He also said that textual plagiarism, self plagiarism, duplicate publications, etc. were equally unacceptable in the scholarly world. He mentioned that science or research is based on trust which should never be breached. He emphasized that students, researchers and faculty members must be made aware that academic or research misconduct is betrayal of everything science or research stands for. Prof. Sopory elucidated that career pressures on students, researchers and faculty members, linking of peer reviewed publications to Academic Performance Indicators (API) and promotions can not be excuses for academic misconduct. Integrity, sincerity and trust are the corner stones of science and must not be ignored at any cost. Ethical conduct must be strictly adhered to or else the researchers will lose credibility in the public.

Mr. Ashok Thakur said that India had the dubious distinction of producing the largest number of plagiarized papers after china. The UGC has introduced API system across the universities for evaluating the performance of teachers and promoting them. The universities also have responsibility of ensuring authentic research and its dissemination through peer reviewed publications. He stressed that use of plagiarism detection services should be mandated in the universities. He further elaborated upon the importance of open access and Shodhganga as an

effective route to provide open access to research in universities in India. He observed that open access facilitates detection of plagiarism and thus prevents it.

Dr. Jagdish Arora gave a brief account of Shodhganga and Shodhgangotri. He expressed concern over the different forms of academic misdemeanour. Dr. Arora apprised the students of plagiarism detection software tools which are being offered to all universities through INFLIBNET Centre. Students could use these anti-plagiarism software tools i.e. "Turnitin and iThenticate" to improve upon the quality of their research. He emphasized on importance of spreading awareness among the students, researchers and faculty members on the issue of academic conduct. Mr. Manoj Kumar extended a warm vote of thanks to all concerned on the occasion.

Prof. Chopra expressed his concern over the issue of academic misconduct which was rampant all across the higher education in the country. He said that the heads of the various educational institutions turned a blind eye towards the problem of academic misconduct, instead of taking steps and formulates policies to combat to prevent plagiarism. He mentioned that the problem had assumed gigantic proportions that a blog named "Retraction watch" had been launched by some enthusiasts, which kept a tab on plagiarism and retractions and reports them. Prof. Chopra was of the firm opinion that the plagiarists should be exposed and stringent action should be taken against them. Prof. Chopra also shared his experiences of blatant instances of plagiarism which he had come across as President of Society for Scientific Values. In order to combat fraud, plagiarism and other forms of academic misdemeanour, lot of mentoring was required. Discussions, case studies and seminars should be conducted in order to spread the message of academic integrity across the students, faculty and scientists. He further suggested that all educational institutions should constitute ethics committee to ensure compliance to ethics and norms of scholarly writing. He cited the case of IIT Kharagpur which had formulated the guidelines for ensuring academic integrity in the institution.

The first session was chaired by Prof. Karmeshu, School of Computer Sciences, JNU who also emphasized on the importance of academic integrity. In this session, Prof. Raghuram, Guru Gobind Singh Indraprastha University, New Delhi gave an elaborate talk on attitude of people towards plagiarism. He deplored the bad state of affairs of plagiarism which existed at different levels of education in the country. He also dwelt upon various factors which caused the menace to grow. Prof. Raghuram mentioned that there was no statutory body in the country to deal with the cases of plagiarism. In absence of such a body, cases of plagiarism are being dealt with in an adhoc fashion. At times, it was also observed that various stakeholders like employers and editors were completely reluctant to look into the instances of plagiarism and also highlighted the high profile cases of plagiarism which also led to retractions. He also referred to T. A. Abhinandan's analysis of 69 retracted papers of Indian authors, which found that the country's retraction rate (44 per 1,00,000 papers) was higher than the world average of 17 per 1,00,000 for all retractions. He urged the students, researchers and faculty to ensure academic conduct as per the norms and ethics of the scholarly world. He also elaborated upon the reasons which led students, researchers, faculty and

scientists to cut corners and plagiarize. He said it was tough to publish original research and the scientists and faculty were under pressure to publish in order to get promotions and grants. He observed that the very Internet technology which facilitates cut, paste and plagiarism, also offers a counter in parallel which facilitates detection of cut, paste and plagiarized content. So even if the perpetrator escaped the immediate abomination, he/she is at the risk of being caught any time in future.

The second technical session was chaired by Mr. Manoj Kumar K., Scientist D (CS), INFLIBNET Centre. He elaborated upon the plagiarism detection services (software tools) which were made accessible to all eligible universities across the country through INFLIBNET Centre. He urged the students, researchers and faculty to use them and provide their valuable feedback to the INFLIBNET Centre. This session witnessed presentations on "Turnitin and iThenticate". The presentations were made on how to use these plagiarism detection software tools in order to check plagiarism and improve upon the quality of research in articles or theses and dissertations.

Dr. Manorama Tripathi, Deputy Librarian highlighted the differences between "Turnitin and iThenticate". She elaborated that these services provide support to teachers in identifying instances of plagiarism; but these certainly cannot replace human judgment. The originality reports generated by these software tools should be interpreted properly in order to enhance the quality of academic or research writing.

In the post lunch session, which was chaired by Dr. R. C. Gaur and Dr. Sanjay Mishra, Director, CEMCA dwelt upon on how to write a literature review which is a central part of any dissertation work. He explained how to conduct, write and organize a literature review. Dr. Mishra also underlined that bibliographic management tools like Zotero, Mendeley and ENDNOTE are of immense importance and help in carrying out research work in an organized and systematic fashion. He further advocated that the students and researchers should be taught about different referencing and bibliographic styles which would help them in avoiding inadvertent plagiarism.

Dr. Usha Mujoo Munshi, Librarian, Indian Institute of Public Administration elaborated upon how to be a smart writer. She explained how to lay down a framework before starting the actual writing work. She elucidated on the techniques of writing a good abstract. She also explained the different kinds of papers like argumentative, descriptive and analytical, etc.

References and citations are important in any kind of research writing or reporting. They direct the readers to additional information pertaining to the concept or idea which has been presented or discussed. References also help the readers to evaluate and ascertain the authenticity and accuracy of the analysis, interpretation and conclusion. It has often been observed that the unintentional plagiarism is often caused because of lack referencing skills on part of students and researchers.

Mr. Sanjeev Kumar Sunny, Assistant Librarian gave a presentation on Mendeley a reference manager and tool for academic social network available in public domain. It helps researchers to organise their research, collaborate with others online and discover the latest research. He demonstrated as how researchers could organize, manage and edit their references and citations using Mendeley.

Mr. Alok Jha, representative of Thomson Reuters, talked about ENDNOTE, which is an alternative software tool for publishing and managing bibliographies, citations and references. ENDNOTE Basic is available to the user community of the university through Web of Science.

The last technical session was chaired by Dr. Satyanarayana. He said that the different forms of misconduct like falsification, fabrication of data and plagiarism exist because there was no policy or rules to deal with such cases. The need of the hour was to lay down robust policies which would deter, discipline and prevent academic misconduct.

Mr. R. K. Kotnala, Chief Scientist, National Physical Laboratory elaborated upon the importance of norms and ethics of scholarly communication. He stressed that concerted efforts should be made to ensure compliance to proper academic conduct. There should be a Research Ethics Committee at the university level in order to promote and ensure proper adherence to ethical norms of research and its communication. He reiterated upon the importance of good research practices in general and on ethics and norms which needed to be followed in nanoscience in particular. He elucidated the different forms of research misconduct which was all pervasive and explained how to control and prevent the same.

Dr. Nabi Hasan, Deputy Librarian, IIT, Delhi shared his experiences of implementing IPR laws and anti-plagiarism services at IIT Delhi. He gave an account of best practices which IIT Delhi follows to ensure compliance to ethics and norms of academic conduct.

Ms. Anjali Gulati, Senior Lecturer, Isabella Thoburn College, Lucknow gave a presentation on APA style, which is the style introduced by American Psychologists Association for writing research papers. APA is the largest scientific and professional organization of psychologists with 1,30,000 researchers, educators, clinicians, consultants and students as its members. This style was developed in 1929 by a group of social scientists for clear and consistent communication of research in the field of social sciences. Ms. Gulati dwelt upon APA style for formatting abstracts, term papers, research reports, empirical studies, literature review, articles and case studies. She explained in detail how to use the five heading levels of APA, put in text citations and references at the end.

At the end of the workshop, the following recommendations were made:

- An ethics committee be constituted at the university level and entrusted with the responsibility of ensuring compliance to academic conduct.

- Honour code or guidelines be formulated to acquaint the researchers with what constitutes plagiarism or other forms of academic misconduct or otherwise. The honour code should be put on the website for everyone to access and browse.

- More programmes and workshops should be conducted on a regular basis in order to spread awareness and educate the researcher community on the issue of academic conduct and integrity.

7.2. National Workshop on Creation and Management of Digital Collection, INFLIBNET Centre, Gandhinagar, 19th-23rd May, 2014

Five-day National Workshop on Creation and Management of Digital Collection was organised at INFLIBNET Centre, Gandhinagar from 19th to 23rd May, 2014. The Workshop was inaugurated by Mr. Ashok Kumar Rai, Scientist-D (CS), INFLIBNET Centre. This Workshop aimed at equipping the participants with skills for developing and managing their own digital collection and for creating awareness in new developments in the field of library and information science like managing information sources in digital environment, building institutional repositories, networking and social media, management of e-resources, with theoretical lectures and hands-on training by experts. 16 library and computer science professionals participated in the Workshop.

Mr. Ashok Kumar Rai and Mr. Yatrik Patel, Scientists D (CS), Mr. H G Hosamani and Mr. Kannan P. Scientists C (LS), Mr. Abhishek Kumar, Scientist C (CS), Mr. Divyakant Vaghela and Mr. Swapnil Patel, Scientists B (CS), Mr. Mitesh Pandya, Scientist B (LS) from INFLIBNET Centre and Dr. T S Kumbhar, Librarian from IIT Gandhinagar served as resource persons for the Workshop. Mr. Swapnil Patel, Scientist B (CS), Mr. Vijay Shrimali, STA (CS), Mr. Ramiz Malek, Sr. Project Officer (CS) and Mr. Kamlesh Vegad, Project Officer (LS) assisted in practical sessions.

7.3. Three-Day National Workshop on Content Management System using Drupal, INFLIBNET Centre, Gandhinagar, 16th-18th July, 2014

Three-day National Workshop on Content Management System using Drupal was organised from 16th to 18th July, 2014 at INFLIBNET Centre, Gandhinagar. Mr. Kannan P, Scientist C (LS) and Coordinator of the Workshop, welcomed the participants and gave an overview of the three-day Workshop. Dr. Jagdish Arora, Director, INFLIBNET Centre, in his inaugural address, emphasized on the importance of a dynamic website for an organisation and the role library professionals can play in delivering effective services to the patron through World Wide Web. Mr. H. G. Hosamani, Scientist C (LS) delivered vote of thanks. The three-day Workshop covered introduction to website design and development, overview of Drupal and its features, installation, theme configuration, module configuration, content development, backup and restore, etc. Mr. Manoj Kumar K. and Mr. Ashok Kumar Rai, Scientists D (CS), Mr. Kannan P, Scientist C (LS), Mr. Abhishek Kumar, Scientist C (CS), Mr. Miteshkumar Pandya, Scientist B (LS) and Mr. Dharmesh A Shah, STA (CS) were resource

persons for theoritical and practical sessions. 32 participants including students of library science & computer science from academic and research institutes attended the Workshop.

7.4. Three-Day Training Programme on Bibliometrics and Research Output Analysis, INFLIBNET Centre, Gandhinagar, 30th July - 1st August, 2014

Three-day Training Programme on Bibliometrics and Research Output Analysis was organised from 30th July to 1st August, 2014 at INFLIBNET Centre, Gandhinagar. Dr. Jagdish Arora, Director, INFLIBNET Centre lighted the ceremonial lamp along with Prof. I. K. Ravichandra Rao, Professor, PEC Institute of Technology, Mr. H G Hosamani, Scientist C (LS), Ms. Kruti Trivedi, Scientist B (LS), INFLIBNET Centre during the inaugural function. The aim of the training programme was to impart an overview of bibliometric methods, performance indicators and tools & techniques related to bibliometric analysis and mapping.

Prof. I. K. Ravichandra Rao, Professor from PES Institute of Technology, Mr. Manish Negi from Thomson Reuters, Ms. Padma Muralidharan from Elsevier Science, Dr. Prakash Chand from Indian Journals.com Dr. P. Dastidar from Ministry of Earth Sciences, Dr. Jagdish Arora, Director, INFLIBNET Centre and Ms. Kruti Trivedi, Scientist B (LS) from INFLIBNET Centre were experts in theoretical session of the training programme. Ms. Kruti Trivedi, Scientist B (LS), Mr. Hitesh Solanki, Scientist B (CS), Mr. Saroja Kumar Panda & Mrs. Roma Yogesh Asnani, STA (LS), Ms. Seema Chavda, Project Officer (LS), Mr. Kuldeep Matieda & Ms. Alpa Acharya, Project Associate (LS) and Ms. Sonal Vaghela, Project Assistant (LS) were resource persons in practical sessions of the training programme. The certificates of participation were distributed at the end of programme. 42 participants including LIS professionals and research scholars attended the programme. Mr. H. G. Hosamani, Scientist C (LS) extended a warm vote of thanks to participants, faculty and publishers.

7.5. Advanced Training Programme on ICT Applications for Libraries, INFLIBNET Centre, Gandhinagar, 10th-30th November, 2014

Twenty one-day Advanced Training Programme on ICT Applications in Libraries was organised from 10th to 30th November, 2014 at INFLIBNET Centre, Gandhinagar for the benefit of LIS professionals. The objective of programme was to provide an exposure of latest ICT applications. The contents covered under this course were as follows:

- New Generation ILMS software
- Changing role of librarianship
- Creation and managing digital library using open source software
- Creation and managing institutional repository
- Web technology
- Networks & cloud computing
- Knowledge discovery tools and techniques

- Inter personnel skills for LIS professionals
- Capacity building on library automation and digital library
- Managing and licensing of e-resources
- Use of anti- plagiarism software
- RFID technology
- E-learning Management System
- Information literacy
- Latest trends in LIS

Dr. Jagdish Arora, Director, INFLIBNET Centre inaugurated the programme. Dr. Anil Kumar H, Librarian, IIM Ahmedabad, Dr. T S Kumbar, Librarian, IIT, Gandhinagar, Dr. Shailesh Yagnik, Librarian, MICA, Ahmedabad, Dr. Lalitha Poluru, Librarian, Dept of Pharmacy, Nirma University, Ahmedabad, Dr. M Kognuramath, Prof & Head, DLIS, Central University of Gujarat, Gandhinagar, Mr. Dhaval Kochar, Rapid Radio Pvt Ltd, Ahmedabad, Mr. G K Upadhyaya, EBSCO were invited as external resources person along with INFLIBNET technical staff. 8 Participants attended the programme. Mr. H G Hosamani, Scientist-C (LS) coordinated the programme.

7.6. Three-day National Workshop on E-Learning: Content Creation and Hosting, INFLIBNET Centre, Gandhinagar, 3rd -5th December, 2014

Three-day Training Programme on E-Learning: Content Creation and Hosting was organised from 3rd to 5th December, 2014 at INFLIBNET Centre, Gandhinagar. Mr. Abhishek Kumar, Scientist C (CS) and Coordinator of the Workshop, welcomed the participants and gave an overview of the two-day Workshop. Dr. Jagdish Arora, Director, INFLIBNET Centre inaugurated the Workshop. The aim of the training programme was to provide exhaustive information on e-learning, electronic content creation and its hosting.

Mr. Yatrik Patel, Scientist-D (CS), Mr. Abhishek Kumar, Scientist-C (CS) and Mr. Kannan P, Scientist-C (LS) , INFLIBNET Centre, Prof. Debal Dasgupta, Head, Dept of Russian Studies, M S University of Baroda and Prof. Ambuja Salgaonkar, University of Mumbai served as faculty in theoretical sessions of the training programme. Mr. Hitesh Solanki, Scientist B (CS), Mrs. Shweta Brahmbhatt, Project Officer (CS) and Mr. Parth M. Viroja, Project Associate (CS) assisted in practical sessions. The certificates of participation were distributed at the end of programme. 12 participants including LIS professionals and research scholars attended the programme. Mr. H. G. Hosamani, Scientist C (LS) extended a warm vote of thanks to participants, faculty and authorities of the Centre.

7.7. Two-day Workshop on Copy Cataloguing, INFLIBNET Centre, Gandhinagar, 6th-7th December, 2014

The INFLIBNET Centre organized two-day Workshop on Copy Cataloguing from 6th to 7th December, 2014 at INFLIBNET Centre, Gandhinagar. Mr. Abhishek Kumar, Scientist C (CS) and Coordinator of

the Workshop welcomed the participants and gave an overview of the Workshop. Dr. Jagdish Arora, Director, INFLIBNET Centre inaugurated the Workshop. The aim of the training programme was to provide extensive training on installation, configuration as well as work flow of the OCS (Online Copy Catalogue System). Resource persons from INFLIBNET Centre made detailed presentations including i) IndCat by Mr. Abhishek Kumar, Scientist C (CS); ii) Bibliographic Standards by Mr. Dinesh Ranjan Pradhan, Scientist B (LS); iii) Introduction to Copy Cataloguing & its Tools & Techniques and Overview of OCS: Work Flow and Creation of Records by Mr. Mitesh Kumar Pandya Scientist-B (LS); and iv) Installation and Basic Configuration of OCS by Mr. Dharmesh Shah, STA (CS). Ms. Seema Chavda, Project Officer (LS), Ms. Alpa Acharya, Project Associate (LS) and Ms. Sonal Vaghela, Project Assistant (LS) were resource persons in practical sessions of the training programme. 8 library professionals from various university libraries attended the Workshop.

7.8. Three-day Training Programme on E-Resources Management at INFLIBNET Centre, Gandhinagar, 15th-17th December, 2014

Three-day Training Programme on E-Resources Management was organised from 15th to 17th December, 2014 at INFLIBNET Centre, Gandhinagar. Mr. Dinesh Ranjan Pradhan, Scientist B (LS) and Coordinator of the Workshop, welcomed the participants and gave an overview of the three-day Workshop. Sh. Yatrik Patel, Scientist D (CS) inaugurated the Workshop. Ms. Hema Cholin, STO (LS) extended a warm vote of thanks at the end of inaugural session. The three-day training programme covered introduction to e-resources management and its life cycle, e-resources search and discovery services by Dr. T S Kumbar, Librarian, IIT Gandhinagar. Mr. Jit-Kwang Han, Elsevier delivered lecture on e-books and its models in publishing industry. Mr. Nihar K Patra, Dy. Librarian, NIFTEM delivered a lecture on comparative feature of E-resources management software. Dr. Shailesh Yagnik, Librarian, MICA, Ahmedabad described subscription models and methods of evaluation of e-resources. Mr. Yatrik Patel, Scientist D (CS) delivered a lecture on various access mechanism of e-resources. Mr. Kannan P, Scientist C (LS), Mr. Dinesh Ranjan Pradhan, Scientist B (LS), Mr. Miteshkumar Pandya, Scientist B (LS), Mr. Saroja Kumar Panda and Mrs. Roma Yogesh Asnani, STA (LS) were resource persons for practical sessions on CORAL e-resources management software. 15 participants from various academic and research institutes attended the Workshop.

7.9. Three-day Training Programme on Bibliometrics and Research Output Analysis, INFLIBNET Centre, Gandhinagar, 7th -9th January, 2015

Three-day Training Programme on Bibliometrics and Research Output Analysis was organised from 7th to 9th January, 2015 at INFLIBNET Centre, Gandhinagar. Mr. Manoj Kumar K., Scientist -D (CS) lighted the ceremonial lamp along with Mr. H. G. Hosamani, Scientist C (LS) and Ms. Kruti Trivedi, Scientist B (LS), INFLIBNET Centre during the inaugural function. The aim of the training programme was to impart an overview of bibliometric methods, performance indicators and tools & techniques related to bibliometric analysis and mapping.

Dr. J. K. Vijayakumar, Manager, Library Collections and Information Services, KAUST, Ms. Kruti Trivedi, Scientist B (LS), Mr. Hiteshkumar Solanki, Scientist B (CS), INFLIBNET Centre, Mr. Vijay Sekhar Reddy, Elsevier and Dr. T. S. Kumbar, Librarian, IIT Gandhinagar served as faculty for the Workshop. Ms. Kruti Trivedi, Scientist B (LS), Mr. Hiteshkumar Solanki, Scientist B (CS), Mr. Saroja Kumar Panda & Mrs. Roma Yogesh Asnani, STA (LS), Ms .Seema Chavda, Project Officer (LS), Ms. Alpa Acharya, Project Associate (LS), Ms. Sonal Vaghela, Project Assistant (LS) were resource persons in practical sessions of the training programme. The certificates of participation were distributed at the end of programme. 19 participants including LIS professionals and research scholars attended the programme. Mr. H. G. Hosamani, Scientist C (LS) extended a warm vote of thanks to participants, faculty and authorities of the INFLIBNET Centre.

7.10. Advanced Training Programme on Configuration and Management of Digital Library using Dspace, INFLIBNET Centre, Gandhinagar, 19th-21st January, 2015

Three-day advanced Training Programme on Configuration and Management of Digital Library using Dspace was organised from 19th to 21st January, 2015. The Workshop was inaugurated by Dr. Jagdish Arora, Director, INFLIBNET Centre. The Workshop addressed various advanced issues related to customisation and management of DSpace for existing DSpace users who needed insight and in-depth knowledge on how to further enhance the usage, its maintenance and customization with theoretical lectures and hands-on training by experts. 8 library and computer professionals participated in the Workshop.

Mr. Manoj Kumar K. and Mr. Yatrik Patel, Scientists D (CS), Mr. Divyakant Vaghela and Mr. Swapnil Patel, Scientists B (CS), Mr. Vijay Shrimali, STA (CS) and Mr. Nirav Rana, Project Associate (CS) from INFLIBNET Centre served as resource persons for the Workshop. Dr. Jagdish Arora, Director, INFLIBNET Centre presided over the valedictory function and distributed certificates to participants. Mr. Yatrik Patel, Scientist D (CS), Mr. H G Hosamani, Scientist C (LS) and Mr. Swapnil Patel, Scientist B (CS) coordinated the Workshop.

7.11. Two-day National Workshop on Research Methodology and Academic Writing, INFLIBNET Centre, Gandhinagar, 29th-30th January, 2015

Two-day National Workshop on Research Methodology and Academic Writing was organised from 29th January to 30th January, 2015 at INFLIBNET Centre, Gandhinagar. Mr. Manoj Kumar K., Scientist D (CS) welcomed the guests and participants. Prof. M. N. Patel, Vice-Chancellor, Gujarat University lighted the ceremonial lamp along with Dr. Jagdish Arora, Director, Mr. Manoj Kumar K., Scientist D (CS) and Mr. H G Hosamani, Scientist C (LS), INFLIBNET Centre during the inaugural function. The aim of the National Workshop was to introduce the modern ways of conducting literature research, use of discovery tools and databases, use of reference management software such as MyEndNoteWeb, Mendeley and data analytical tool such as SPSS in analysing the research data and to improve the research skills and competence among the researchers by strengthening their knowledge as well as improving researcher's technical writing skill, etc. 29 participants including LIS

professionals and research scholars attended the programme. Mr. H. G. Hosamani, Scientist C (LS) extended a warm vote of thanks to participants, faculty and organisers. The certificates of participation were distributed at the end of programme. Following lectures were delivered during the Workshop by the experts.

i) Style manuals, reporting research & academic writing by Dr. Usha Munshi, Librarian, Indian Institute of Public Administration, New Delhi;

ii) Research methodology and planning research by Dr. Neerja A. Gupta, Principal, BSRA College, Ahmedabad;

iii) Use of reference management software such as MyEndNoteWeb, Mendeley and data analytical tool by Dr. Gopakumar V., University Librarian, Goa University, Goa;

iv) Research methodology and application of software packages for research analysis by Dr. R. Ravanan, HOD, Department of Statistics, Presidency College, Chennai;

v) Performance indicators of published research by Ms. Kruti Trivedi, Scientist B (LS), INFLIBNET Centre; and

vi) Zotero open-source reference management software by Mr. Mitesh Pandya, Scientist B (LS), INFLIBNET Centre.

8. Attachment Training Programme

8.1. Attachment Training Programme for Practicing Library Professionals, INFLIBNET Centre, Gandhinagar, 27th October- 22nd November, 2014

The Attachment Training Programmes (ATP) for Practicing Library Professionals was organised from 27th October to 22nd November 2014 at INFLIBNET Centre, Gandhinagar where-in working library professionals from university/institutions availed the training from experienced INFLIBNET staff. The objective of ATP is to train the LIS professionals on ICT applications in libraries at various levels from basic to advance. Mr. Des Raj Kapoor, Library & Information Assistant, Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, New Delhi took the benefit of ATP at all the four levels.

9. User Awareness Programmes on UGC-Infonet Digital Library Consortium and N-LIST

9.1. User Awareness Programme under UGC-Infonet Digital Library Consortium, Tezpur University, Tezpur, 19th -20th May, 2014

Two-day User Awareness Programme on E-resources under UGC-Infonet Digital Library Consortium was organized by Tezpur University in collaboration with INFLIBNET Centre, Gandhinagar from 19thto 20th May, 2014 at Council Hall, Tezpur University, Tezpur. Chief Guest Padma Shri Prof. Rajpal S. Sirohi, Former Director, Indian Institute of Technology, Delhi and Former Vice-Chancellor, Barkatullah University, Professor of Eminence, Department of Physics, Tezpur University lighted the

ceremonial lamp followed by Guest of Honour, Dr. Jagdish Arora, Director, INFLIBNET Centre, Prof. Charu Lata Mahanta, Dean, Research & Development and Dr. Mukesh Saikia, Librarian, Tezpur University during the inaugural function. Dr. Saikia coordinated the programme. He welcomed the guests, dignitaries and participants and highlighted the objectives of the programme. He mentioned that the successful and popular initiative of UGC- Infonet facilitates access to more than 8,500+ e-journals and good number of databases from well-known publishers for the benefit of students, research scholars and faculty of universities.

Dr. Jagdish Arora, in his inaugural speech, gave a brief account of the activities of INFLIBNET Centre and e-resources available for the benefit of students, research scholars and the faculty in universities all over the country. He said that INFLIBNET Centre takes the responsibility of hosting, maintaining and making the digital repository of theses and dissertations accessible to the entire world through open access channel [http://shodhganga.inflibnet.ac.in]. The repository also facilitates better access to Indian research all over world. He further emphasized the need of using plagiarism detection software to check plagiarism and thereby improving the quality of Indian research. He also highlighted the need for providing access to full-text doctoral theses submitted to various Indian universities.

Prof. Charu Lata Mahanta, in her speech, said that librarians have to work as knowledge workers and have to be more analytical and possess the subject knowledge. She further said that librarians have to do the value addition to the content possessed by their libraries or accessible through the Web. She appreciated efforts of the Central Library to make users of the University aware of e-journals and databases from different publishers that are available from a single platform.

Padma Shri Prof. Rajpal S. Sirohi appreciated the efforts of the INFLIBNET Centre and University Library. He also emphasized the need of such programmes in the changing scenario of publications trends and users attitudes. He said that expectations from libraries are increasing day by day since libraries are becoming more and more digital. He said that there is a greater need to find out as to how the library services can become better, how can the libraries remain effective and relevent in the present day scenario. He further said that libraries of the future would increasingly possess ejournals, ebooks and databases that would require new innovative library services & programmes. He also discussed about the initiative of UGC-INFONET Digital Library Consortium and INDEST-AICTE Consortium. Dr. Monawwer Eqbal, Deputy Librarian, Tezpur University extended a warm vote of thanks to the guests and participants at the inaugural function. Nearly 140 participants from university including invited speakers, experts and delegates ranging from academicians, LIS professionals, corporate managers and publishers attended the programme. The programme was marked by lively talks, interesting product presentations and lively discussions.

Dr. Jagdish Arora delivered keynote speech on INFLIBNET Centre's activities and services. Representatives of the publishers including Mr. Charley Thomas, Balani Infotech (P) Limited, Noida, Mr. Vishav Sharma, Elsevier-Science & Technology, Gurgaon, Mr. Jayanta Guha, Oxford University

Press India Ltd, Kolkata, Mr. Rahul Dasgupta and Mr. Mohit Pabby, Wiley India, New Delhi, Mr. Soumya Chakraborty, Springer (India), New Delhi, Mr. Yogesh Chinchwade, Sci-Edge Information, Pune and Mr. Rajendra Kumar, Nature Publishing Group, Gurgaon made presentations on their respective e-resources. Dr. Mukesh Saikia emphasized on optimum utilization of resources available at Tezpur University.

The valedictory function started with a welcome address. Dr. Mukesh Saikia presented a brief report of the programme. Prof. Chandana Goswami, Department of Business Administration, delivered the valedictory address. Dr. Biren Das, Registrar, Chief Guest of Valedictory Function distributed certificates to the participants. Dr. Mukesh Saikia, Librarian extended a warm vote of thanks to the participants, university authorities and INFLIBNET Centre.

9.2. One-day User Awareness Programme on Access to E-resources under UGC-Infonet Digital Library Consortium , Alagappa University, Karaikudi, 25th July, 2014

One-day User Awareness Programme on E-resources under UGC- Infonet Digital Library Consortium was organized by Alagappa University in collaboration with INFLIBNET Centre on 25th July, 2014 at University Convocation Seminar Hall, Alagappa University, Karaikudi. Dr. A. Thirunavukkarasu, Librarian welcomed the guests and participants. Dr. C. Bhaskaran, Deputy Librarian coordinated the programme and presented thematic address. Prof. S. Kaliyamoorthy, Convener, Vice-Chancellor's Officiating Committee inaugurated the programme. In the inaugural speech, Prof. Kaliyamoorthy emphasized that such user awareness programme help users to access information for their academic research and their career. He said that although abundant information is available online, but those who are aware of availability of relevant resources and its usage can succeed in the process of getting right material at the right time which would ultimately help them to carry out quality research and disseminate its findings to other researchers. Mr. Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre presented a complete overview of INFLIBNET activities and UGC-Infonet Digital Library Consortium. The representatives of the publishers including Jgate, GIST, Wiley, Balani Infotech Pvt. Ltd attended the programme and made presentations on their respective information products. Dr. B. Jeyapragash, Assistant Professor, DLIS, Bhartidasan University, Tiruchirappalli gave invited talk during the programme. Prof. H. Gurumallesh Prabhu, Special Officer- Planning & Development delivered the valedictory address and Dr. P. Ganesan, Assistant Librarian extended a warm vote of thanks. 197 users including faculty members, research scholars and student of LIS attended the programme.

9.3. One-day User Awareness Programme on Access to E-resources under N-LIST Programme, St. Agnes College, Mangalore, 12th August, 2014

On the occasion of the Librarian's day, one-day User Awareness Programme on N-LIST e-resources was organised by St. Agnes College in collaboration with INFLIBNET Centre on 12th August, 2014. Dr. Vishala B K, Selection Grade Librarian, St. Agnes College and Coordinator of the programme

welcomed the guests and participants. Mr. Manoj Kumar K, Scientist D (CS), INFLIBNET Centre inaugurated the programme by lighting the lamp along with other dignitaries. In the inaugural address, Mr. Manoj Kumar elaborated on the spirit behind five Laws of Library Science and said that library is a living and growing organism and brain behind growth and development of institutions, he also introduced various new initiatives taken by the INFLIBNET Centre in recent years.

Dr. M. K. Bhandi, University Librarian, Mangalore University delivered keynote address and released second Agnesian In-house Eco Research: A Multidisciplinary Journal. In his keynote address, Dr. Bhandi spoke about the significance of celebrating Dr. S. R. Ranganathan's Birthday as Librarian's Day since 2008 and highlighted his contributions to the academic world. Dr. Sr. Prem D'souza, Principal, St. Agnes College delivered presidential address. Dr. Saraswathi B S, Convenor, Library Committee extended a warm vote of thanks. Dr. Hitakshi, Associate Professor, Department of Psychology compared the programme.

In the training session, Mr. Manoj Kumar demonstrated various services of INFLIBNET Centre. He also spoke about information pollution through Google and knowledge discovery process. Mrs. Shubharekha, HOD, Dept of Statistics, St. Agnes College explained the process of data collection, graphical & diagrammatic presentation and application of statistical tests in research in detail. She also illustrated various types of tests for hypothesis testing & types of errors and concluded that statistics is relevant to every field of study from anthropology to zoology.

In the valedictory session, Sr. M. Supriya A. C., Vice Principal, St. Agnes College presided over the function and the Chief Guest Dr. Narahari, Registrar, St. Aloysius College (Autonomous) delivered concluding remarks. 54 Librarians and faculty members and 166 students from various Institutions benefitted from the Awareness Programme.

9.4. One-day User Awareness Programme on Access to E-resources under UGC-Infonet Digital Library Consortium, Central University of Himachal Pradesh, Dharamshala, 12th September, 2014

One-day User Awareness Programme on Access to E-resources under UGC-Infonet Digital Library Consortium was organised by the Central University of Himachal Pradesh, Dharamshala in collaboration with the INFLIBNET Centre on 12th September, 2014. Mr. N. Karunakar, Assistant Professor, DLIS and Coordinator of the programme delivered the welcome address. Prof. Inder Vir Malhan, Head, DLIS & Dean, SoMC&IS spoke about the importance and purpose of this Workshop. He highlighted the problems and issues faced by faculty and students of the University while accessing e-resources. He also discussed the problems faced by libraries due to ever-increasing costs of journals and budget cuts. He said that these problems have been resolved to a great extent with formation of UGC-Infonet Consortium Digital Consortium. He emphasized that information leads to insight, helps to articulate ideas and propels innovation. Mr. Ashok Kumar Rai gave an overview of various activities and services of the INFLIBNET Centre. The representatives of the publishers

including Wiley, Balani Infotech Pvt. Ltd., Oxford University Press, Elsevier, Cambridge University Press and Informatics India Ltd. attended the programme and made presentations on their respective information products. About 50 faculty members and research scholars participated in the programme.

9.5. One-day User Awareness Programme on Access to E-resources under N-LIST Programme, Bilaspur University, Bilaspur, 17th October, 2014

One-day User Awareness Programme on access to e-resources under N-LIST Programme was organized by Bilaspur University, Bilaspur in collaboration with INFLIBNET Centre on 17th October 2014 at Bilasa Auditorium, Bilaspur University, Bilaspur. It was a unique User Awareness Programme that was organized for the first time in the region with an objective to encourage affiliated colleges of the University to avail the facility of e-resources through N-LIST programme, a college component of UGC-Infonet Digital Library Consortium. Prof. G. D. Sharma, Vice-Chancellor inaugurated the programme. Dr. H. S. Hota, Associate Professor and Mr. Jeetendra Kumar, Assistant Professor, Dept. of Computer Science and Application coordinated the programme. Dr. Hota welcomed the guests and participants and gave an introductory speech and pointed out objectives and benefits of the programme. Prof. B N Tiwari and Prof. Biswas, Associate Professors, DLIS, Guru Ghasidas Central University, Bilaspur and Dr. Prashant Bopapurkar, Associate Professor, DLIS, K N College, Korba shared their views and experiences about accessing e-resources and SOUL Software. Mr. Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre briefly elaborated on the theme of the programme with special reference to access of e-resources for the benefits of students as well as teachers and researchers from affiliated colleges. He also made a presentation on N-LIST programme followed by active interaction with participants. Mr. Jeetendra Kumar extended a warm vote of thanks at the end of the programme. Principals and Librarians from 161 affiliated colleges attended the programme. N-LIST membership forms were distributed and collected from all participants. About 85 affiliated colleges showed their interest to become an active member of N-LIST programme.

9.6. One-day User Awareness Programme on Access to E-resources under UGC-Infonet Digital Library Consortium, Cochin University of Science & Technology, Kochi, 10th February, 2015

One-day User Awareness Programme on Access to E-resources under UGC-Infonet Digital Library Consortium was organised by the Cochin University of Science and Technology (CUSAT) in collaboration with INFLIBNET Centre, Gandhinagar on 10th February 2015. Dr. Beena C, University Librarian In-charge and Coordinator of the programme welcomed the guests and participants. Prof. Paulose Jacob, Pro Vice-Chancellor inaugurated the programme with lighting the lamp along with Prof Mohan Kumar, Dean and Syndicate Member, Prof. David Peter, Registrar and Mr Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre. In his inaugural address, Prof. Jacob stressed upon the need for maximum utilization of the available resources under the Consortium by the academic

community of CUSAT especially students and research scholars. Mr. Balachandran, Assistant Librarian, Dept. of Applied Economics extended a warm vote of thanks at the end of the session.

In the first technical session, Mr. Ashok Kumar Rai delivered a lecture on various e- resources accessible to the academic community under the UGC-Infonet programme. Prof. Mohan Kumar delivered a presentation on basics of research. He gave step by step guidance on how to conduct research and how to prepare a detailed research report. Representatives of Cambridge University Press, Elsevier (ScienceDirect), SciFinder Scholar, Nature journal and Oxford University Press delivered detailed presentations on their respective products. Mr. Anoop Varma, Junior Librarian made a detailed presentation on e-resources available in CUSAT under different consortia and subscribed by CUSAT library. The programme received a very good response and more than 150 participants attended the programme.

9.7. One-day User Awareness Programme on Access to E-resources under UGC-Infonet Digital Library Consortium, Gandhigram Rural Institute, Gandhigram, 13th February, 2015

One-day User Awareness Programme on Access to E-resources under UGC-Infonet Digital Library Consortium was organised by Gandhigram Rural Institute in collaboration with INFLIBNET Centre, Gandhinagar at Dr. G. Ramachandran Library, Gandhigram Rural Institute, Gandhigram on 13th February 2015 at Silver Jubilee Hall. Dr. J. Abraham, Deputy Librarian, Library In-charge and Coordinator of the programme welcomed the guests and participants. Dr. M. Tamizhchelvan, Deputy Librarian delivered thematic address. Dr. S. Natarajan, Vice-Chancellor inaugurated the programme. In his inaugural address, he appreciated the initiatives taken by the library for organising such kind of workshops for the research scholars. He further said that supervisors and research scholars must use the e-resources made available through UGC-Infonet Digital Library Consortium. He requested for access to additional resources such as ScienceDirect, Project Muse and Royal Society of Chemistry through UGC-Infonet. Mr. Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre, in his keynote address, elaborated on INFLIBNET Centre's activities and services. He mentioned that INFLIBNET will extend all possible cooperation for providing access to additional e-resources.

Dr. B. Ramesh Babu, Former Professor, DLIS, University of Madras delivered special address during the inaugural session. In his special address, he elaborated upon role of UGC-Infonet Digital Library Consortium in development of higher education institutions. Dr. S. Dhanavandan, Programme Coordinator and Assistant Librarian extended a warm vote of thanks to all dignitaries and participants. In the first technical session, Mr. Ashok Kumar Rai gave an overview of UGC-Infonet Digital Library Consortium and highlighted the advantages of e-resources over traditional information resources. Representatives from Informatics India (Annual Reviews, JGate Plus), Taylor & Francis, Cambridge University Press and Oxford University Press delivered detailed presentations on their respective products and services.

Dr. B. Ramesh Babu, Former Professor, DLIS, University of Madras made a presentation on "Access and Search of E-Resources for Scholarly Communication". In the valedictory function, Dr. S. Dhanavandan, Programme Coordinator and Assistant Librarian welcomed the guests and participants. Dr. K. Somasundaram, Professor, Department of Computer Science & Applications delivered presidential address. He appreciated the initiatives taken by the library staff members. Dr. M.G. Sethuraman, Director, Internal Quality and Assurance Cell delivered valedictory address. In his address, he elaborated on total citation count, h-index and the productivity of publications of GRI. Mrs. S. Mathurajothi, Assistant Librarian (SG) extended a warm vote of thanks. 260 participants attended the programme including faculty members, research scholars and library and information science professionals.

10. User Awareness Programme on Shodhganga and Anti-Plagiarism Software

10.1. User Awareness Programme on Shodhganga and Anti-Plagiarism Software, Guru Nanak Dev University (GNDU), Amritsar, 19th May 2014

One-day Workshop on Shodhganga Awareness and Anti-Plagiarism Software was organised by Guru Nanak Dev University in colloboration with INFLIBNET Centre, Gandhinagar on 19th May, 2014 at Guru Nanak Dev University, Amritsar. Mr. Naresh Nandan, System Manager welcomed the guests and participants. Prof. (Dr.) A. S. Brar, Vice-Chancellor, Guru Nanak Dev University inaugurated the programme in the presence of Mr. Manoj Kumar K., Scientist-D (CS), INFLIBNET Centre and other dignitaries. Prof. A.S. Brar, in his inaugural speech, introduced software named "Turnitin and ithenticate" and cautioned the research scholars regarding plagiarism. Dr. H. S. Chopra, University Librarian coordinated the programme and explained the merits of Shodhganga and use of anti-plagiarism software. He explained that if the theses uploaded in Shodhganga by researcher is found plagiarized, it could be very harmful to their academic career. Mr. Naresh Nandan extended a warm vote of thanks during the inaugural programme. Mr. Manoj Kumar K., Scientist-D (CS), INFLIBNET Centre gave an overview of Shodhganga & Shodhgangotri and also gave detailed introduction of Shodhganga, submission of theses, authentication, backup, role and responsibilities of University Coordinator. Mr. Pushpinder, representative from Balani Infotech gave demonstration of Turnitin and iThenticate anti–plagiarism software and also explained steps for uploading the theses for plagiarism check. More than 325 faculty members, research scholars and students of the University attended the programme.

10.2. One-day Regional Training Programme-cum-Workshop on Shodhganga and Anti-Plagiarism Software, Tezpur University, Tezpur, 28th November, 2014

One-day Regional Training Programme-cum-Workshop on Shodhganga and Anti-Plagiarism Software was organized by Tezpur University in collaboration with INFLIBNET Centre, Gandhinagar on 28th November, 2014 at Central Library, Tezpur University, Tezpur. Prof. Amarjyoti Choudhury, Pro Vice-Chancellor, Chief Guest and Padma Shri Prof. Rajpal S. Sirohi, Professor of Eminence,

Department of Physics, Tezpur University, Guest of Honour inaugurated the programme with lighting the traditional lamp in the presence of Prof. A. S Chandel, Professor Emeritus, DLIS, NEHU, Shillong, Mr. Manoj Kumar K, Scientist-D (CS), INFLIBNET Centre, Dr. M. Saikia, Librarian, Tezpur University, other dignitaries and participants. Dr. M. Saikia, Librarian, Tezpur University and coordinator of the programme welcomed the delegates and dignitaries and described aims and objectives of the programme. Mr. Manoj Kumar K, Scientist-D (CS), INFLIBNET Centre spoke about Shodhganga, Shodhgangotri and plagiarism detection using software packages subscribed by the INFLIBNET Centre. He stated that it was a unique opportunity for faculty members, researchers and students to gain knowledge on various facets of plagiarism and how to use anti-plagiarism software (iThenticate/Turnitin) for similarity test.

Prof. A. S. Chandel, in his keynote address, deliberated upon various issues related to plagiarism and anti-plagiarism software tools provided by the INFLIBNET Centre. He explained the standardization of similarity checking and uniformity of anti-plagiarism tools. He also described the attitude of researchers towards plagiarism, ethical issues related to plagiarism and expressed his concerns on rampant plagiarism happening at different levels of education in India. He stressed that the plagiarists should be exposed and strict action should be taken against them.

Padma Shri Prof. Rajpal S. Sirohi, Guest of honour addressed the participants. He opined that the access to plagiarism detection software to all universities through INFLIBNET Centre is a good initiative. These anti-plagiarism software tools i.e. "Turnitin and iThenticate" should be used by the researchers to improve the quality of their research work. He highlighted the significance of awareness among the researchers and faculty members and students on the issue of academic conduct and ethics. He believed that the software cannot alone check plagiarism without human interference. He expressed that self-restrain is the most significant step for avoiding plagiarism. Researchers should judge their own work professionally and ethically.

Prof. Amarjyoti Choudhury, Pro Vice-Chancellor, Tezpur University appreciated Central Library for organizing one-day Regional Training Programme cum Workshop on Shodhganga and Anti-plagiarism software (iThenticate/Turnitin) at Tezpur University for the benefit of researchers and academicians. He explained the plagiarism issues and challenges for academia and benefits of implementing the anti-plagiarism system and procedures in every university and institution. Prof. Choudhury also mentioned that there is no statutory organization in India to deal with the cases of plagiarism. In absence of such a body, plagiarism cases are being dealt with in an adhoc fashion. He discussed how to ensure academic conduct as per the norms and ethics of the scholarly world. He also elaborated upon the reasons that tempt faculty, students, researchers and scientists to cut corners and plagiarize. He also emphasized on the importance of "Turnitin and iThenticate" software and elaborated that these services provide support to teachers/research scholars in identifying instances of plagiarism, but these certainly cannot replace human judgment. Similarity reports generated by these software tools should be interpreted properly in order to enhance the quality of

academic or research work. Dr. M. Eqbal, Deputy Librarian, Tezpur University extended warm a vote of thanks at the end of the inaugural session.

On this occasion, Chief Guest Prof. Amarjyoti Choudhury, Pro Vice-Chancellor, Tezpur University and Guest of Honour Padma Shri Prof. Rajpal S. Sirohi, Professor of Eminence, Department of Physics, Tezpur University released a book entitled 'Library Management: New Trends and Challenges' edited by Dr. M. Saikia, Dr. Monawwer Eqbal and Mr. Devendra Pratap.

10.2.1. Technical Sessions

In the first technical session, Prof. D.K Bhattacharyya, Dean, School of Engineering, Tezpur University presented an overview on plagiarism and described different types of plagiarism such as auto-plagiarism, self-plagiarism and cryptomnesia, intentional and unintentional plagiarism and major causes of plagiarism. He also cited some very interesting references and resources for reading.

Mr. Manoj Kumar K, Scientist-D (CS), resource person from the INFLIBNET Centre made a detailed presentation on Shodhganga and Shodhgangotri. He discussed the work flow, technical process, creation of metadata and standards, submission of theses, authentication, backup of Shodhganga repository and briefed the role and responsibilities of University Coordinator. He also talked about UGC guidelines on submission of thesis and responsibilities of INFLIBNET Centre and University. He also discussed the benefits of implementing anti-plagiarism system and procedures that should be adopted in universities.

In the second and third technical sessions, Mr. Bibin B Daniel, Balani Infotech Pvt. Ltd., New Delhi made a detailed presentation on Turnitin & iThenticate software. He explained the procedure for checking a document for plagiarism using Turnitin & iThenticate software and elaborated upon steps for uploading the theses and documents for plagiarism check. He highlighted the differences between Turnitin & iThenticate software. The participants took great interest during the whole session and several questions were raised relating to the Turnitin & iThenticate software.

More than 250 participants including faculty members, research scholars, and library professionals attended the programme. The programme was anchored by Mr Rajesh. R, Assistant Librarian. Dr. M. Saikia, Librarian, Tezpur University extended a warm vote of thanks to all participants and speakers.

10.2.2.   Panel Discussion and Recommendations

The panel discussion on the theme "Plagiarism: Issues and Challenges for Academia" was chaired by Prof. M. Bhuyan, Department of Electronics & Communication Engineering, Tezpur University. The panellists were Prof. Charu Lata Mahanta, Dean, Research & Development, Prof. Subhrangshu Sekhar Sarkar, Dean, School of Management Sciences, Prof. Chandana Goswami, Department of

Business Administration, Tezpur University, Mr. Manoj Kumar K, Scientist D (CS), INFLIBNET Centre and Mr. Bibin B Daniel, Balani Infotech Pvt. Ltd., New Delhi. Panel members discussed recent media reports about an online software tool which can be used to detect plagiarism in research papers and thesis. Panelist suggested that all educational institutions should constitute a committee in their respective institutions to ensure compliance to ethics and norms of scholarly writing. They quoted the cases of organizations that have formulated the guidelines for ensuring academic integrity.

The Panelists also discussed that scientists and faculty members are under pressure to publish in order to get promotions and grants. The panelists recommended that a policy is required for checking of plagiarism and similarity and standardization of software. Mr. Manoj Kumar K, Scientist-D (CS), INFLIBNET Centre agreed to put forward the recommendations regarding standardization of percentage of similarity check to Govt. of India and requested Tezpur University to send the draft through VC to the INFLIBNET Centre for necessary action. At the end of the discussion, the following recommendations were made:

- A guideline should be formulated by the UGC on plagiarism for all academic institutions. All universities should suggest the UGC to formulate national level policy on plagiarism.
- A policy should be formulated by the UGC about the acceptable percentage (%) of similarity checking by the software tools.
- Standardisation of anti-plagiarism software is required for all university.
- A committee should be constituted at the university level which should be delegated with the responsibility of ensuring compliance to academic conduct.
- More programmes and workshops should be conducted on a regular basis in order to spread awareness and educate the researcher community on the issues of academic conduct and integrity.

10.3. One-day User Awareness Programme on Shodhganga & Anti-Plagiarism Software, Bundelkhand University, Jhansi, 6th December 2014

One-day User Awareness Programme on Shodhganga and Anti-Plagiarism Software was organized by Bundelkhand University in collaboration with INFLIBNET Centre, Gandhinagar on 6th December 2014 at Central Library, Bundelkhand University, Jhansi. Prof. Avinash Chandra Pandey, Hon'ble Vice-Chancellor inaugurated the programme with lighting of traditional lamp in front of Goddess of knowledge, Devi Saraswati along with Prof. Pankaj Atri, Pro Vice-Chancellor, Dr. Sridevi Jetty, Dy. Librarian, Bundelkhand University and Mr. Manoj Kumar, Scientist D (CS), INFLIBNET Centre. Dr. Sridevi Jetty coordinated the programme and welcomed the guests and participants of the programme and also presented the status of digitization of theses of the University. She mentioned that 1,769 theses have been digitized and uploaded into Shodhganga and the University stands at the fourth position in Shodhganga as far as no. of the theses are concerned. She also mentioned about various important services provided by INFLIBNET Centre to Bundelkhand University Library including ejournals through UGC Infonet Digital Library Consortium, SOUL 2.0 Software, etc. Mr.

Manoj Kumar K. spoke about the importance of Shodhganga, anti-plagiarism software, utilization of software and participation of Indian universities in Shodhganga. Prof. Pankaj Atri, Pro Vice-Chancellor enunciated as to how the research has become challenging in the current scenario and also how important it is to use the plagiarism checkers for Ph.D. theses as well as for research papers/articles. Prof. Avinash Chandra Pandey, Hon'ble Vice Chancellor delivered presidential address and stressed on improvement in quality of research. 400 participants including faculty members and research scholars from various Departments of Bundelkhand University attended the programme. Representatives from iGroup Infotech India Pvt. Ltd. made detailed presentations about Turnitin and iThenticate software. Dr. Vinit Kumar, Assistant Professor, Dept. of Library & Information Science extended a warm vote of thanks to INFLIBNET Centre, University authorities and all the participants.

10.4. One-day User Awareness Programme on Shodhganga on Anti-Plagiarism Software, Gauhati University, Guwahati, 18th December, 2014

One-day User Awareness Programme on Shodhganga and Anti-plagiarism software was organized by Gauhati University in collaboration with INFLIBNET Centre on 18th December 2014 at K. K. Handique Library, Gauhati University, Guwahati. Dr. Jagdish Arora, Director, INFLIBNET Centre inaugurated the ETD Lab along with Dr. Mridul Hazarika, Hon'ble Vice-Chancellor, Gauhati University and Mr. Manoj Kumar K. Scientist D (CS), INFLIBNET Centre on 17th December, 2014. Dr. Arora elaborated about Shodhganga Scheme, its aim and objectives and appreciated the Hon'ble V.C. for giving permission to organize such an event for the benefit of research scholars in particular and academic community in general. He urged upon use of iThenticate and Turnitin for checking plagiarism and for improving quality of research output. He also expressed his satisfaction on the progress of work related to Shodhganga Project in K. K. Handique Library.

Manoj Kumar K, Scientist D (CS), INFLIBNET Centre deliberated upon the features and functionalities of anti-plagiarism software, i.e. 'iThenticate and Turnitin'. Dr. Mridul Hazarika, Hon'ble Vice-Chancellor delivered presidential address. He thanked to the Director, INFLIBNET Centre for the initiatives taken by the INFLIBNET Centre by launching schemes like Shodhganga and Shodhgangotri for the benefit of academic fraternity. He also expressed his happiness for being a part of the scheme and ensured to extend full cooperation in future collaborations also.

Dr. H. P. Sarma, Rector, Gauhati University delivered concluding remarks. He appreciated help and support provided by the INFLIBNET Centre with financial grants and technical support. He opined that such types of awareness-cum-demonstration not only guide the research community in right direction but also help in improving quality of research ultimately benefiting the society.

Mr. Wooma Sankar Dev Nath, Librarian, K. K. Handiqui Library narrated his experience gathered during execution of project on digitisation of theses in the Gauhati University and expressed his heartfelt thanks to Dr. Jagdish Arora, Director and Mr. Manoj Kumar K., Scientist D (CS), INFLIBNET

Centre. He also assured that his team will continue in their endeavours to strengthen Shodhganga in days to come.

10.5. One-day User Awareness Programme on Shodhganga and Anti-Plagiarism Software, Annamalai University, Chidambaram, 4th February, 2015

One-day User Awareness Programme on Shodhganga and anti-plagiarism software was organised by Annamalai University in collaboration with INFLIBNET Centre on 4th February, 2015 at Dr. Sir C. P. Ramaswami Aiyar Library, Annamalai University, Chidambaram. Mr. Shiv Das Meena, IAS Principal Secretary to Government of Tamil Nadu/Administrator, Faculty of Agriculture and Dr. R. Rajendran, Dean, faculty of Arts inaugurated the programme. Dr. M Nagarajan, Professor & Head, DLIS & University Librarian presided over function. Dr. A Ragupathy, Controller of Examination extended a warm vote of thanks.

Technical sessions started with presentation on "INFLIBNET Centre Activities and Services" by Mr. Kannan P., Scientist C (LS), INFLIBNET Centre. Dr. K Elavazhagan, Librarian & Chief Knowledge Officer, IIM Trichy delivered a lecture on copyright and plagiarism issues. Dr. R Sevukan, Associate Professor & Head, DLIS, Pondicherry University delivered a lecture on the role of citation for avoiding plagiarism in research. Mr. Kannan also made a detailed presentation on Shodhganga. During valedictory function, Dr. S. Velusami, Dean, Faculty of Engineering and Technology concluded the programme. Dr. V. Thiruvalluvan, Dean, Faculty of Indian Languages felicitated the programme. Dr. B Meenakshi, Assistant Librarian presided over the function. Dr. M G Rajeswari, Assistant Librarian and Coordinator of the programme extended a warm vote of thanks. 404 participants attended the programme.

10.6. One-day User Awareness Programme on Shodhganga and Anti-Plagiarism Software, Cochin University of Science & Technology, Kochi, 9th February, 2015

One-day User Awareness Programme on Shodhganga and Anti-Plagiarism Software was organised by Cochin University of Science and Technology (CUSAT) in collaboration with INFLIBNET Centre on 9th February, 2015 at the International School of Photonics Auditorium, CUSAT, Kochi. Dr Beena C., University Librarian and Coordinator of the programme welcomed the guests and participants. Dr. J. Letha, Hon'ble Vice-Chancellor inaugurated the programme. In her inaugural speech, she stressed upon the importance of ethics of research work and importance of conducting literature survey/study to give significance and novelty in research work. Dr Paulose Jacob, Pro Vice-Chancellor and Dr A. B. Bhasi, Controller of Examination spoke about unethical practices that are going on all over the world and methods to avoid such immoral practices in research works and improve its quality as well as safeguard the institutions. Such awareness programmes/ regional workshops help to understand the significance of qualitative research and facilitate development of a culture for productive research. Dr Paulose Jacob, Pro Vice-Chancellor inaugurated the ETD Lab at Cochin University of Science and Technology (CUSAT). Mr. Manoj Kumar K., Scientist D (CS), INFLIBNET Centre made a detailed presentation on Shodhganga and anti-plagiarism software. Prof

David Peter, Registrar and Dr. A. B. Bhasi, Controller of Examinations felicitated the programme. Dr. Susan Mathew, Assistant Librarian extended a warm vote of thanks at the end of the programme.

Mr. Arjun from Balani InfoTech Pvt. Ltd. demonstrated anti-plagiarism software i.e. iThenticate and Turnitin and encouraged faculty and students to check their research papers using these software. More than 250 participants including research scholars, faculty and library professionals from different universities in Kerala and other southern states participated in the programme. The participants gave a positive feedback about the importance of such programmes in creating awareness about plagiarism. Delegates requested INFLIBNET Centre to conduct such awareness programmes/workshops more frequently.

10.7. One-day User Awareness Programme on Shodhganga and Anti-Plagiarism Software, Mangalore University, Mangalore, 12th February, 2015

One-day User Awareness Programme on Shodhganga and anti-plagiarism software was organised by Mangalore University in collaboration with INFLIBNET Centre on 12th February 2015 at Senate Hall, Mangalore University, Mangalore. Dr. M. K. Bhandi, University Librarian coordinated the programme and welcomed the guests and participants. Prof. K. Byrappa, Hon'ble Vice-Chancellor inaugurated and presided over the programme. Dr. T. Y. Mallaiah, Deputy Librarian introduced the programme to the participants.

Mr. Manoj Kumar K, Scientist D (CS), INFLIBNET Centre, in his keynote address, mentioned that it is mandatory for universities to submit their theses and dissertations into Shodhganga. He said that presently, INFLIBNET Centre is providing two anti-plagiarism softwares, namely iThenticate and Turnitin to all universities who have signed the MoU on Shodhganga with INFLIBNET Centre. He mentioned that universities have to make their own policies to check plagiarized content in theses and dissertations before their submission into Shodhganga. Mr. Arjun, Balani InfoTech Pvt. Ltd. demonstrated anti-plagiarism software i.e. iThenticate and Turnitin. Dr. M. Purshotham Gowda, Deputy Librarian extended a warm vote of thanks at the end of the programme. Dr. B. K. Vishala, Librarian, St. Agnes College, Mangalore was the Master of Ceremony. Around 184 participants including faculty members and research scholars attended the programme.

10.8. One-day User Awareness Programme on Shodhganga and Anti-Plagiarism Software, GITAM University, Visakhapatnam, 23rd March, 2015

One-day User Awareness Programme on Shodhganga and Anti-Plagiarism Software was organized by GITAM University in collaboration with INFLIBNET Centre on 23rd March 2015 at GITAM University, Visakhapatnam. Dr. G. Naga Ratna Mani coordinated the programme and welcomed the guests and participants. The inaugural function started with prayer followed by lighting of traditional lamp by Prof. G. Subrahmanyam, Vice-Chancellor along with Dr. G. Naga Ratna Mani,

University Librarian, GITAM University and Mr. Manoj Kumar K., Scientist D (CS), INFLIBNET Centre. All Heads of the departments and directors attended the programme.

Prof. G. Subrahmanyam, in his inaugural address, appreciated the efforts made by the INFLIBNET Centre. He stated that the INFLIBNET Centre not only provides access to e-resources to all the universities but also provide a wide range of facilities to the universities. He explained idea and purpose behind anti-plagiarism software. Mr. Manoj Kumar K., Scientist D (CS), INFLIBNET Centre made a detailed presentation on Shodhganga, Shodhgangotri and anti-plagiarism software. He practically explained how to load papers and theses into the software and check the plagiarism. He also presented the statistical data on Shodhganga project and requested the university to upload their theses into Shodhganga. Mr. K. Vijay Bhardwaj, Student, Electronics & Instrumental Engineering extended a warm vote of thanks.

10.9. One-day User Awareness Programme on Shodhganga and Anti-Plagiarism Software, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kanchipuram, 26th March 2015

One day User Awareness Programme on Shodhganga and Anti-Plagiarism Software was organized by Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya in collaboration with INFLIBNET Centre on 26th March 2015 at Sri Adi Sankara Auditorium, SCSVM, Kanchipuram. Dr. G. Srinivasu, Registrar welcomed the guests and participants. Dr. V. S. Vishnu Potty, Hon'ble Vice-Chancellor inaugurated the programme. In his inaugural address, he emphasized for high quality research and commitment of research scholars for qualitative research in every field of knowledge. He also highlighted vision of the university in order to produce quality research output and measures taken to improve the quality. Mr. Manoj Kumar K., Scientist D (CS), INFLIBNET Centre explained the need, purpose and implementation of Shodhganga and also explained how anti-plagiarism software can help in producing qualitative research. He also gave live demonstration of anti-plagiarism software i.e. Turnitin and iThenticate by submitting articles from research scholars of the SCSVMV University. Further, Mr. Manoj Kumar introduced various new initiatives and programmes of INFLIBNET Centre and its benefits to the academic community. Nearly 136 faculty members and 30 research scholars participated and interacted with the resource person. Dr. Devika, Librarian I/C , SCSVMS University extended a warm vote of thanks.

10.10. One-day Workshop on Shodhganga and Anti-Plagiarism Software, Periyar University, Salem, 27th March 2015

One-day User Awareness Programme on Shodhganga and Anti-Plagiarism Software i.e. IThenticate/Turnitin was organized by Periyar University in collaboration with INFLIBNET Centre on 27th March 2015 at Periyar University, Salem. Dr. N. Subramanian, Professor and University Librarian coordinated the programme and welcomed the guests and participants and briefed about the objectives of the programme. Dr. C. Swaminathan, Hon'ble Vice-Chancellor inaugurated the Electronic Theses and Dissertations Lab in the Central Library of Periyar University in presence of

Mr. Manoj Kumar K., Scientist-D (CS), INFLIBNET Centre. Dr. C. Swaminathan, Hon'ble Vice-Chancellor also inaugurated the User Awareness Programme with lighting the traditional lamp along with Dr. R. Palanivel, Dean, CDC, Periyar University and Mr. Manoj Kumar K. Scientist D (CS).

Mr. Manoj Kumar delivered keynote address. He made a presentation on various programmes initiated by the INFLIBNET Centre for the universities and colleges. He briefly mentioned the present status of Shodhganga and importance of anti-plagiarism software. Dr. C. Swaminathan, Honble Vice-Chancellor appreciated efforts put by the INFLIBNET Centre. Dr. R. Palanivel, Dean, CDC, felicitated the programme. More than 125 participants attended the programme. Dr. E. S. Kavitha, Assistant Professor, Department of Library and Information Science extended a warm vote of thanks to the participants, university authorities and INFLIBNET Centre. Various Heads of Departments of Periyar University participated in the programme.

11.   E-Content Development under e-PG Pathshala

11.1. Workshop on E-content Development for Paper on "Information Sources, System & Services of Library & Information Science", South Campus, University of Delhi, New Delhi, 20th-21st June, 2014

Two-day Workshop on E-content Development for the Paper on "Information Sources, System & Services" was organised by INFLIBNET Centre, Gandhinagar at Institute of Life Long Learning, University of Delhi South Campus, New Delhi from 20th to 21st June, 2014. The workshop was the part of e-content development activities of e-PG Pathshala Project funded by the MHRD under its National Mission on Education through ICT (NME-ICT). The purpose of the Workshop was to assess the progress of e-content development, review the modules and voice recording of self-learning module by the content writers for the paper "Information Sources, System and Services". Dr Renu Arora, Paper Coordinator, e-PG Pathshala and Former Head, Education and Training, Mrs. C. M. Anand, Scientist F (Retd.), Dr. M. Natarajan, Sr. Principal Scientist, Dr. R. K. Verma, Former Chief Scientist, NISCAIR, Dr. Praveen Babbar, Dy. Librarian, Jawaharlal Nehru University, Dr. Shalini Lihitkar Waghmare, Sr. Assistant Librarian and HOD, DLIS, Rastrasant Tukadoji Maharaj Nagpur University, Nagpur participated in the Workshop. The Workshop started with a presentation on overview of e-PG Pathshala project and progress made by Mr. Kannan P, Scientist C (LS), INFLIBNET Centre. The Workshop continued with the group discussions by content writers on respective modules. Voice narration of the individual content writer was recorded for the respective module to prepare self-learn component. Mr. Kannan P, Scientist C (LS) coordinated the Workshop as representative of the INFLIBNET Centre with the support of Institute of Life Long Learning Team, University of Delhi South Campus, New Delhi.

11.2. Three-day Workshop on e-Content Development for the Paper Information & Communication Technology for Libraries and Information Sources, System and Services, Indian Institute of Public Administration (IIPA), New Delhi, 28th-30th August, 2014

The Centre organised three-day Workshop on e-Content Development for the Paper Information & Communication Technology for Libraries and Information Sources, System and Services from 28th to 30th August, 2014 at Indian Institute of Public Administration (IIPA), New Delhi. The Workshop was part of e-content development activities of e-PG Pathshala Project funded by the MHRD under its National Mission on Education through ICT (NME-ICT). The purpose of the Workshop was to assess the progress of e-content development, review the modules and voice recording of self-learning component of e-modules by the content writers for the paper on Information & Communication Technology for Libraries and Information Sources, System and Services. The Workshop started with a presentation on overview of e-PG Pathshala project and current status of progress by Mr. Kannan P, Scientist C (LS), INFLIBNET Centre. The Workshop continued with the voice narration of the individual content writer for their respective module to prepare self-learn component of e-module. Eighteen participants including content writers and paper coordinators attended the Workshop. Mr. Kannan P, Scientist C (LS) coordinated the Workshop as representative of the INFLIBNET Centre along with Dr. Usha M Munshi, Paper Coordinator of ICT for Libraries and Librarian, IIPA, New Delhi and Dr. Renu Arora, Paper Coordinator of Information Sources, System and Services and Former Head, Education and Training, National Institute of Science Communication and Information Resources (NISCAIR), New Delhi.

11.3. Workshop on Task of Production of Courseware e-Content for Postgraduate Subjects, UGC, New Delhi, 3rd September 2014

The Workshop was organized by the UGC for helping and supporting the PIs for Production of Courseware e-Content for Postgraduate Subjects on 3rd September, 2014 at UGC, New Delhi. Prof R. C. Kuhad, Chairman Sub-committee welcomed all the participants and stressed upon the need to organize the Workshop. Prof. R. C. Kuhad, Professor, Department of Microbiology, University of Delhi, South Campus, New Delhi made a presentation on overview of e-PG Pathshala with emphasis on key aspects of developing quality e-content. Prof. Kushal Sen, IIT Delhi attended the meeting on behalf of Prof. Mangala Sunder Krishnan, IIT Madras and shared his experience on NPTEL.

Samples modules developed in subjects like Architecture, Russian Studies and Linguistics were presented by respective PIs and their demonstration helped the PIs to understand the whole concept about developing e-content with four quadrant approach.

Mr. Nageshwar Nath, Senior Engineer, CEC, New Delhi on behalf of Director CEC made presentation on progress in e-content development at UG level by CEC. Dr. Jayashree Shinde, Head, Department of Educational Technology, SNDT Women's University, Mumbai made her presentation on effective instructional design. Prof. Uma Kanjilal, Professor & Head, Library & Information Science, IGNOU, New Delhi made a comprehensive presentation on software tools for e-content development including open source and freely available software. Mr. Pradeep Kaul, Senior Consultant, NME-ICT, Dept. of Higher Education, MHRD made detailed presentation on NME-ICT including future

programmes of MHRD. 22 PIs attended the Workshop. The individual PIs presented the status of e-content development and posed problems/queries to the members of committee. The members of the committee clarified all the queries to the satisfaction of PIs. The PIs requested that UGC should continue to organize such meetings in future as well.

11.4. One-day Workshop-cum-Meeting on e-Content Development for the Paper Indian Culture, Sri Venkateswara University, Tirupati, 10th November 2014

One-day Workshop-cum-Meeting on e-Content Development for the Paper Indian Culture was organised by Dept. of Ancient Indian History, Culture and Archaeology, Sri Venkateswara University, Tirupati. Mr. Abhishek Kumar, Scientist C (CS), INFLIBNET Centre delivered a talk on importance and requirements of e-PG Pathashala through video conferencing. Paper Coordinators and Content Writers attended the Workshop-cum-Meeting. The discussions and deliberations made during the Workshop enriched the understanding of the project and the process of e-content development.

11.5. Two-day Workshop on e-Content Development for the Paper 'Management of Library and Information Centres & Knowledge Centres', New Delhi, 19th-20th December, 2014

The INFLIBNET Centre organised Two-day Workshop on e-Content Development for the Paper 'Management of Library and Information Centres & Knowledge Centres' from 19th to 20th December, 2014 at Event Production Company, New Delhi. The Workshop was the part of e-content development activities of e-PG Pathshala Project funded by the MHRD under its National Mission on Education through ICT (NME-ICT). The purpose of the Workshop was to assess the progress of e-content development, review the modules and voice recording of self-learning component of e-module by their respective content writers. Dr. P K Bhattacharya & Dr. Shantanu Ganguly, Fellows, The Energy and Resources Institute, Mrs. C M Anand, Scientist F (Retd.), Dr. R K Verma, Former Chief Scientist and Dr. G Mahesh, Principal Scientist, NISCAIR and Dr. Kshema Prakash, Deputy Librarian, IIT Jodhpur participated in the Workshop. Voice narrations of individual content writers were was recorded for the respective modules to prepare self-learning component. Mr. Kannan P, Scientist C (LS), INFLIBNET Centre coordinated the Workshop.

11.6. Workshop on e-Content Development for the Subject 'Food Technology', New Delhi, 19th December, 2014

The INFLIBNET Centre organised One-day Workshop on e-Content Development for the Subject 'Food Technology' on 19th December, 2014 at Event Production Company, New Delhi. Prof. Vijaya Khader, Principal Investigator, Food Technology, e-PG Pathshala welcomed all the stakeholders/team members. Prof. Khader presented the progress made in the subject 'Food Technology' including overall status of all papers. She also appreciated the work done by the paper coordinators and their team and requested to all paper coordinators to complete their work by February 2015 in all respect in terms of qualitative benchmark of e-module. Mrs. Shweta

Brahmbhatt, Project Officer (LS), INFLIBNET Centre presented qualitative benchmark of e-module approved by the Standing Committee, e-PG Pathshala to all the participants of Workshop. She also presented remarks for improvements required for each module of each paper with respect to the guidelines. Mr. Sonal V, Event Production Company presented the multimedia work done by his company for various subjects under e-PG Pathshala and discussed as to how modules under the subject 'Food Technology' can be prepared with the integration of graphics / animation including new templates with logos.

Prof P. N. Raju, Prof. D. C. Saxena, Prof. Dibyakant Seth, Prof. K. K. Dash, Paper Coordinators for the Subject 'Food Technology' made presentations on their papers to showcase progress made by them as well as timeline to complete the task of content creation. It was agreed that paper coordinators will provide revised modules as per qualitative benchmarks including missing components of modules as well as storyboard for multimedia.

11.7. Three-day Workshop on e-Content Development for the Papers 'Knowledge Society and Informetrics & Scientometrics', Indian Institute of Science, Bengaluru, 8th-11th January, 2015

The INFLIBNET Centre organised three-day Workshop on e-Content Development for the papers 'Knowledge Society and Informetrics & Scientometrics' from 8th to 10th January, 2015 at Indian Institute of Science, Bengaluru. The Workshop was the part of e-content development activities of e-PG Pathshala Project funded by the MHRD under its National Mission on Education through ICT (NME-ICT). The purpose of the Workshop was to assess the progress of e-content development, review the modules developed under the papers 'Knowledge Society and Informetrics & Scientometrics' and voice recording of self-learning modules by their respective content writers and evaluate the existing e-modules under these two papers as per the qualitative benchmark defined by the Standing Committee, e-PG Pathshala. Prof. K. S. Raghavan, Paper Coordinator (Knowledge Society), Dr. Kavi Mahesh, Dr. Sanjeevi Amba, Dr. K. P. Vijaykumar, Dr. Chidambara and Dr. M. V. Sunil attended the Workshop and self-learn modules were recorded for the respective modules from 8th to 9th January, 2015. Prof. I. K. Ravichandra Rao, Paper Coordinator, Dr. A. Y. Asundi and Dr. S. L. Sangam discussed the qualitative benchmark issues of the existing e-modules under the paper Informetrics & Scientometrics and agreed to re-record the modules as per the new benchmark on 10th January, 2015. Mr. Kannan P, Scientist C (LS) coordinated the Workshop as representative of the INFLIBNET Centre.

11.8. Meeting of Experts on e-Content Development for the Paper 'Media and Information Literacy', Indian Institute of Mass Communication, New Delhi, 21st February, 2015

The INFLIBNET Centre organised the Meeting of Subject Experts for the paper Media and Information Literacy (MIL) under the subject Library and Information Science on 21st February, 2015 at Indian Institute of Mass Communication, New Delhi. The objective of the Meeting was to discuss

the emerging topics in the area of Media and Information Literacy, its importance and to formulate the curriculum structure for e-content to be developed under e-PG Pathshala project.

Dr Jagdish Arora, Director, INFLIBNET Centre welcomed all the experts and made a presentation on e-PG Pathshala. He elaborated on e-PG Pathshala project, funding available, methodology, role of paper coordinator, current status of the project and briefed the need for the paper on Media and Information Literacy (MIL). Prof. Jagtar Singh and Prof. I. V. Malhan elaborated on various aspects of the paper and major areas to be covered under the paper including fundamental of MIL, MIL indicators, media and information, ethics & law and search and browse interface under the paper MIL. After detailed discussions and deliberations, a tentative list of modules was prepared. Dr. Anubhuti Yadav, Associate Professor, IIMC agreed to coordinate the activity as paper coordinator. Dr. Jagdish Arora extended a warm vote of thanks at the end of the meeting. The following experts attended the meeting:

- Dr. Jagdish Arora, Director & Mr. Kannan P., Scientist C (LS), INFLIBNET Centre;
- Prof. Jagtar Singh, Professor and Head & Dr Harinder Pal Singh Kalra, Associate Professor, DLIS, Punjabi University, Patiala;
- Prof. Inder Vir Malhan, Professor and Head, DLIS & Dean, School of Mathematics, Computers & Information Science, Central University of Himachal Pradesh, Dharamshala;
- Mr. Pramod Mathur, Chairman-cum-Managing Trustee, Foundation for Responsible Media;
- Prof. K. M. Srivastava & Dr. Anubhuti Yadav, Associate Professor, Indian Institute of Mass Communication (IIMC), New Delhi;
- Dr. K. S. Arul Selvan, Associate Professor, School of Journalism and New Media Studies (SOJNMS), IGNOU, New Delhi; and
- Mr. Rajesh Singh, Deputy Librarian, Central Library, University of Delhi.

12. JSTOR India User's Forum 2014

12.1. JSTOR India User's Forum, Inter-University Centre for Astronomy and Astrophysics, Pune, 13th October, 2014

The JSTOR, in collaboration with INFLIBNET Centre, Gandhinagar and Inter-University Centre for Astronomy and Astrophysics organized JSTOR India User's Forum on 13th October 2014 at IUCAA, Pune. Ms. Kruti Trivedi, Scientist B (LS), INFLIBNET Centre welcomed the invitees and participants during the inaugural session. The forum was inaugurated by Prof. Ajit Kembhavi, Director, IUCAA, Pune in presence of Dr. Jagdish Arora, Director, INFLIBNET Centre and Dr. R. K. Chadha, Additional Secretary, Parliament of India, Lok Sabha Secretariat, New Delhi. Dr. Jagdish Arora, Director, INFLIBNET Centre thanked Inter-University Centre for Astronomy and Astrophysics, Pune and Mrs. Nirupama Bawdekar, Scientific Officer E (Library) and her colleagues for organizing JSTOR Forum at a short notice and for extending their infrastructural facility. Mr. John Lenahan, Associate Vice President, JSTOR could not attend this meeting due to unavoidable circumstances. However, he

gave a brief introduction about JSTOR and answered questions by participants online via Skype. Mrs. Nirupama Bawdekar extended a warm vote of thanks to JSTOR, INFLIBNET Centre, authorities of IUCAA, Pune and participants at the end of inaugural session. 100 participants including librarians, information professionals and students from various colleges and universities attended the forum. The following presentations were made during the technical session of the forum:

1. Dr. Jagdish Arora, Director, INFLIBNET Centre made presentations on JSTOR Overview, Books at JSTOR and Portico as Preservation Solution.
2. Besides, Mrs. Suchitra S. Avachat, Associate Director, Armament Research and Development Establishment, Defence R&D Organisation made a presentation on Preservation through Document Management and Digitization.

After presentations, discussions were held on different resources and services offered by JSTOR including JSTOR archive, current scholarship, books and portico.

12.2. JSTOR India User's Forum, University of Hyderabad, Hyderabad, 19th November, 2014

The JSTOR, in collaboration with INFLIBNET Centre, Gandhinagar and University of Hyderabad organized JSTOR India User's Forum on 19th November 2014 at University of Hyderabad, Hyderabad. Dr. N. Varatha Rajan, University Librarian, University of Hyderabad welcomed the invitees and participants during the inaugural session. The forum was inaugurated by Prof. Mohan Ramanan, Former Dean, School of Humanities, University of Hyderabad. Dr. Jagdish Arora, Director, INFLIBNET Centre thanked Dr. N. Varatha Rajan for organizing JSTOR Forum at a short notice and for extending their infrastructural facility. Mr. John Lenahan, Associate Vice President, JSTOR gave a brief introduction about the programme. Dr. (Mrs.) V. Uma, Deputy Librarian, University of Hyderabad extended a warm vote of thanks to JSTOR, INFLIBNET Centre, authorities of University of Hyderabad and the participants at the end of inaugural session. 125 participants including librarians, information professionals and students from various colleges and universities attended the forum. The following presentations were made during the technical session of the forum:

1. Mr. John Lenahan, Associate Vice President, JSTOR made presentations on JSTOR Overview, Books at JSTOR and Portico as Preservation Solution.
2. Besides, Dr. P. Divakar, Centre for Cellular and Molecular Biology (CCMB), Hyderabad made a presentation on Future of Librarianship

After presentations, discussions were held on different resources and services offered by JSTOR including JSTOR archives, current scholarship, books and portico.

12.3. JSTOR India User's Forum, Jadavpur University, 21st November, 2014

The JSTOR, in collaboration with INFLIBNET Centre, Gandhinagar and Jadavpur University, organized JSTOR India User's Forum on 21st November 2014 at Jadavpur University, Kolkatta. Prof.

Rajib Bandyopadhyay, Dept. of Instrumental and Electronics Engineering, Jadavpur University welcomed the invitees and participants during the inaugural session. The forum was inaugurated by Prof. Sivaji Bandyopadhyay, Dean, FET, Jadavpur University. Dr. Jagdish Arora, Director, INFLIBNET Centre thanked Dr. Manilal Murmu, Librarian, Jadavpur University for organizing JSTOR Forum at a short notice and for extending their infrastructural facility. Mr. John Lenahan, Associate Vice President, JSTOR gave a brief introduction about the programme. Dr. Manilal Murmu extended warm vote of thanks to JSTOR, INFLIBNET Centre, authorities of Jadavpur University and participants at the end of inaugural session. 100 participants including librarians, information professionals and students from various colleges and universities attended the forum. The following presentations were made during the technical session of the forum:

1. Mr. John Lenahan, Associate Vice President, JSTOR made presentations on JSTOR Overview, Books at JSTOR and Portico as Preservation Solution.
2. Besides, Dr. Swati Bhattacharya, Librarian, Indian Institute of Management, Kolkata made a presentation on Building eBook Collections in Academic Libraries: an Indian Perspective.

After presentations, discussions were held on different resources and services offered by JSTOR including JSTOR archives, current scholarship, books and portico.

13.   UGC-Infonet University Forum, Elsevier Science, New Delhi, 5th August, 2014

The 5th UGC-Infonet University Forum was organized by the INFLIBNET Centre in collaboration with the Elsevier Science in New Delhi on 8th August 2014. The agenda of 5th University Forum revolved around different metrics used to evaluate research. Dr. Jagdish Arora, Director, INFLIBNET Centre delivered a detailed presentation on the different rankings and the methodolgy involved in evaluating performance of universities.

Dr. Peter Haddawy, Faculty ICT Mahidol University, Thailand shared findings of the report entitled "Higher Education in Asia-Expanding Out, Expanding Up". He also presented the status of Indian Universities as compared to other Asian Universities. Mr. Peter Sidorko, Library Director, University of Hong Kong delievered presentation on "How does library successfully support research workflow in a University". Prof. Ajit Kembhavi, Director, IUCAA, Pune and Mr. Kok Keng Lim, Managing Director, Asia Pacific, Academic & Government, Elsevier (SG) were also present at the forum. The Forum was attended by around 40 participants from member universities. The forum gave an Ideal platform to university representatives to discuss challenges and opportunities beyond library.

14.   Regional Training and Awareness Programmes on J-GatePlus@UGC-Infonet

One-day Regional Training and Awareness Programmes on J-GatePlus@UGC-Infonet were organised by Informatics India Ltd, Bengaluru in collaboration with INFLIBNET Centre, Gandhinagar for universities in different geographical regions of the country given below in Table 23.

Sl. No.	University Name	Representatives	Date	No. of Participants
1	**Western Region:** Tata Institute of Social Science, Mumbai	Mr. Sanjay Grover, CEO & Ms. Jothy, Informatics India Ltd, Ms. Kruti Trivedi, Scientist B (LS) & Mr. Saroja Kumar Panda, STA (LS), INFLIBNET Centre	30th June, 2014	57
2	**Eastern Region:** Jadavpur University, Kolkatta	Mr. Sanjay Grover, CEO & Mr. Swapnil Srivastava, Informatics India Ltd, Mr. Dinesh Ranjan Pradan, Scientist B (LS), INFLIBNET Centre	16th July, 2014	20
3	**Northern Region:** University of Delhi, New Delhi	Mr. Sathyanarayana, Informatics India Ltd., Mr. Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre.	11th Aug, 2014	26
4	**Southern Region:** Anna University, Chennai	Mr. Sathyanarayana, Mr. Sanjay Grover and Mr. Swapnil Srivastava, Informatics India Ltd, Dr. Jagdish Arora, Director, INFLIBNET Centre	4th Sept, 2014	94

Table 23: Regional Training and Awareness Programmes on J-GatePlus@UGC-Infonet at different Geographical Regions

The sessions during all the four Training and Awareness Programmes started with presentations by representatives of Informatics India Ltd. These prensentations highlighted need for universal access to recorded human knowledge by means of universal bibliographic control such as J-Gate. The presenter also emphasized upon advantages of having J-Gate in addition to J-GatePlus@Consortia. Presenters also presented the changing trends in information retrieval and digital library experience. During these presentations, presenters impressed upon the need for an integrated single search experience for information seekers.

Representatives of Informatics India Ltd also demonstrated use of admin module (Rights and Access Management system) and updating of organisational information like IP details, email, addresses, etc. The presenters demonstrated Configuration of library subscribed journals in JGatePlus to enable "My Library tab" and export assignment details, reports and their analytics, procedure for fulfilling document delivery request and generation of various reports. Participants, including librarians, information professionals, network administrators, students and faculty from various colleges and universities, attended the programme.

Part - IV

Infrastructure Facilities, Distinguished Visitors, Other Important Activities and Financial Status

1.   Central Facilities

1.1.   Library (http://www.inflibnet.ac.in/library/)

The INFLIBNET Centre has a specialized library having unique collection on library and information science, computer science, communication and information technology. The library is fully computerized using SOUL 2.0 integrated library management software. The library has around 1,556 books and 100 print and online journals and magazines. Besides, the Centre, as the coordinating agency for the Consortium, gets complementary access to 8,500+ electronic journals and 11 bibliographic databases subscribed under the UGC-Infonet Digital Library Consortium. The collection of the library is available online though the web OPAC at http://www.inflibnet.ac.in/library/. Figure 48 shows library of the INFLIBNET Centre.

Fig. 48: INFLIBNET Centre's Library

The INFLIBNET Library plays a vital role in the collection development and dissemination of scientific and technical information to meet the present and future needs of the Centre. The Library maintains databases of i) participants who have attended various training programmes at INFLIBNET Centre; ii) Institutions having SOUL installations; and iii) Universities and its contact details including e-mail and website addresses. These databases are accessible through the INFLIBNET Website.

1.1.1. Library Services

The library provides following services to its users:

  ➢ Reference Service
  ➢ Document Delivery Service
  ➢ Current Awareness Service

- ➤ Inter Library Loan Service
- ➤ Electronic Information Service
- ➤ Reprographic Service

1.1.2. Access to Online Database

The Centre subscribes to web edition of the Ulrich's International Periodical Directory, a web-based bibliographic database of periodicals that is being used for authentication of bibliographic records in union catalogues and for other activities. The database accessible on INFLIBNET's IPs is also accessible to visiting users. Besides, the Centre, as executing and monitory agency for the UGC-Infonet Digital Library Consortium and N-LIST programme has access to all e-journals, e-books and bibliographic database subscribed under these two programmes.

1.2. IR @ INFLIBNET (http://ir.inflibnet.ac.in)

The Centre has established an institutional repository called IR@INFLBNET using DSpace, open source software accessible at http://ir.inflibnet.ac.in. The papers published in the proceedings of the CALIBER and PLANNER, are uploaded into the repository. The Repository also includes course materials, newspaper clippings, etc. The repository has 1,476 full-text articles.

1.3. Institutional Members

The Centre has institutional membership of following national and international organizations:

- • American Library Association (ALA)
- • National Information Standards Organization (NISO)
- • Indian Library Association (ILA)
- • Indian Association of Special Libraries and Information Centres (IASLIC)
- • ADINET (Ahmedabad Library Network)
- • British Library, Ahmedabad

2. New ICT Infrastructure@INFLIBNET Centre

The INFLIBNET Centre designed and planned the ICT infrastructure for its new building based on the requirements of its scientists and staff. M/s Progility Technologies Pvt. Ltd. (formally M/s Siemens Enterprise Communication) was selected for supplying and installing all IT-related solutions and components as well as for integration of passive and active low-voltage infrastructure solution for the new building of the Centre at Infocity, Gandhinagar.

2.1. Computer Network & Infrastructure

The Centre maintains basic infrastructural facilities such as Computer Laboratories and Data Centre to support its all essential computing activities. Important IT infrastructural facilities available at the Centre are as follows:

2.1.1. PCs, Laptops and Servers

The main objective of the Centre is to provide proactive help to the universities in library automation and to mediate resource sharing amongst them. Computing and network infrastructure are the main assets of the Centre. The Centre has added more PCs, Laptops, gadgets and other equipment with high configuration in 2014-2015 for the staff and users with a total no. of 160 PCs and 20 laptops for scientists, project staff, walk-in user's facilities for researchers, training laboratories, ETD lab., etc.

The Centre earlier had four servers for hosting its services including two IBM x3500 1U servers for web services and two IBM x3660 5U servers for its research & development activities. In addition, one HP Blade Server Enclosure C3000 was procured from HP along with eight ProLiant BL460c servers in 2009 for different services of the Centre such as Web services, INFLIBNET website, Shodhganga, OJAS, N-LIST, N-LIST Proxy Server, InfoPort, e-PG Pathshala, IndCat, DNS server, Intranet server, UGC website, e-SARTS and other important services. With addition projects, schemes and increased in volume of data, the Centre has again procured IBM Blade Centre S chassis with six blades and data storage to host mirror sites at INFLIBNET Centre as well as at the BSNL Hosting Services.

2.1.2. Campus-LAN and Internet Connectivity

The Centre provides most of its services through Internet on 24*7*365 basis. The network infrastructure is one of the most important components to provide efficient and effective services to the remote and local academic users. The Centre has upgraded network infrastructure that connects all its offices and laboratories with National Knowledge Network (NKN) that provides 1 Gbps MPLS (Multi Protocol Layer Switching) connectivity to all universities in India. The bandwidth is currently used within a limit of 100-150 Mbps, but it can be increased on demand based on bandwidth intensive applications upto 1 Gbps. INFLIBNET Centre is having two Internet connections, i.e. one from NKN and other from BSNL for standby purpose. This gives redundancy to Internet links which is essential in an organisation which is striving towards Tier 3 Data Centre. Access to e-resources is enabled on all sets of IP addresses used by the Centre. STM (Synchronous Transfer Mode) equipment at Centre is connected through Optical Fiber to Gandhinagar node of NKN on ring topology. This gives redundancy of NKN links and the architecture of the NKN is enabled to reach all universities with minimum hops. Any university can be reached with minimum hops on NKN and this gives INFLIBNET an advantage of serving the universities with good speed and higher data transfer.

As on now, the network is running over managed L3 switches and managed L2 switches with 40 Gbps ready network with structured cabling, rack, I/Os, jack panels, etc. Dedicated firewall appliance is purchased with subscription to anti-virus, anti-spam and intrusion detection system. PCs and laptops used in the Centre are protected against attack and other vulnerability by Gateway level-filtering and intrusion detection system using Fortinet UTM. User-level antivirus protection is also enabled for end-user protection. On an average, the INFLIBNET Website and the national union databases attract more than 15,000 visitors per month.

2.2. State-of-the-Art Data Center

The Centre has resource-intensive application development platforms for hosting its services. The uptime of the services is maintained with high reliability and scalability. Data Centre at the INFLIBNET Centre is designed and implemented to meet the demanding requirement of full-text databases and web services offered by the Centre. The Data Centre is equipped with servers of relatively high configurations in terms of memory, processor, storage, etc. In order to adhere to Tier 3 standard for Data Centre, the redundancy is maintained available for Internet connectivity, power, UPS, core switches, firewall and cabling.
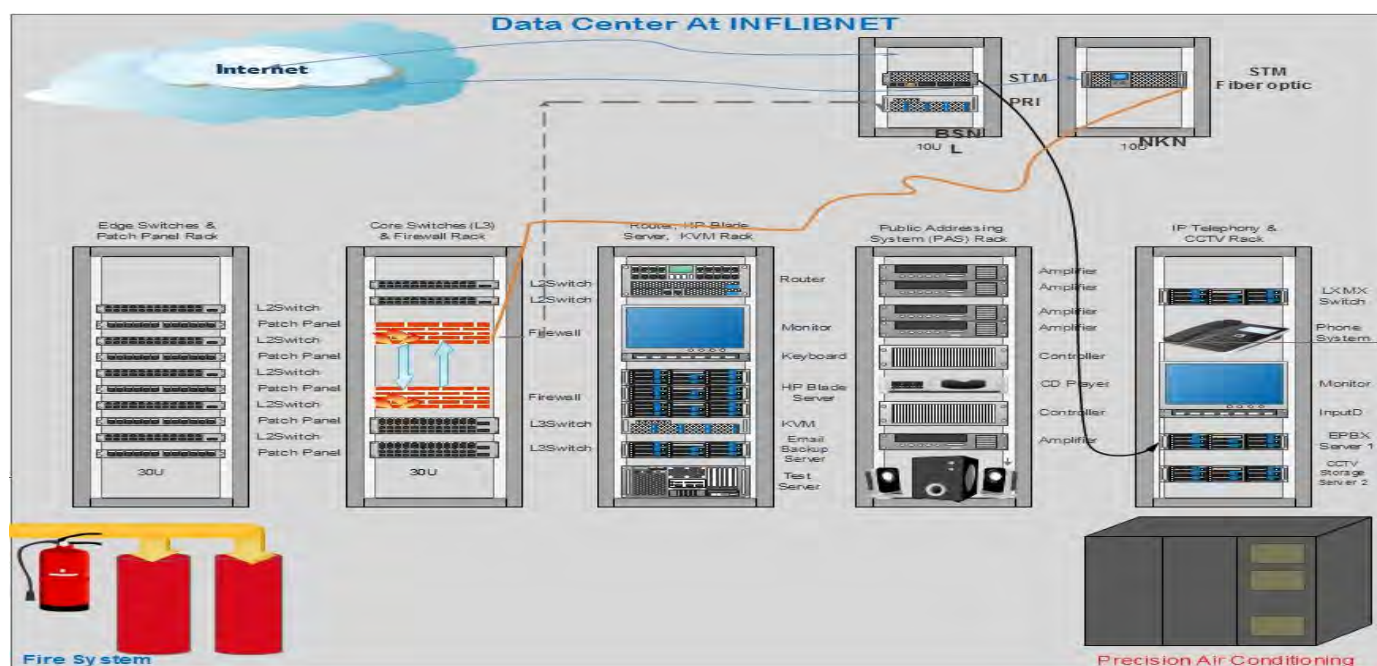
Fig. 49: Data Center at INFLIBNET Centre

Five racks are installed in the main area of the Data Centre whereas electrical panel and STM equipment are installed in the adjoining room for safetly purposes. The first rack is specially allocated for structured cabling with standardised architecture and components for cabling specified by the EIA / TIA with proper name labelling for ports, patch codes, etc. This gives predictable performance as well as the flexibility to accommodate moves, adds and changes to maximised system availability and provides redundancy. All fibre distribution cables are terminated on this rack

which are interconnected with other racks and distribution layer 2 (L2) edge switches on various floors. The second rack is having 7 RU height core switch with CISCO Nexus 7004 which is a modular and fixed port network switched design for Data Centre. The switch has four slots and support 96 10 Gbps and/or 1 Gbps all non-blocking ports. This switch also has two dedicated supervisor slots and two I/O modules slots and support for SUP2 and SUP2E. This rack is also having Network Management System (NMS) to monitor the functions of network devices and services. In addition, this rack also host Fortinet firewall and UTM platform on HA mode. Third rack is used for hosting one blade server, 1U servers and storage system. A common KVM (keyboard, video display monitor and mouse) switch is used for controlling all servers on the rack. By pressing a button on KVM switch, the administrator can change control from one server to next server. This rack also has NKN router which connects to STM switch in the nearest room. The fourth rack holds PAS (Public Address System) which has zone wise controller for each floor for music and public announcements. The fifth rack is dedicated for CCTV server and its storage along with IP telephony server. Figure 49 depicts the detailed interconnection of various components in the Data Centre.

All components are fully fault-tolerant including uplinks, storage and servers. Storage control module support RAID (Redundant array of Independent Disks) and manages RAID partitions of the HDDs in the integrated bay.

2.3. Building Management System (BMS)

Energy saving is introduced to make the Centre's Building as "Green Building" by leveraging the IT infrastructure available. Building Management System (BMS) consisting of various hardware and software components are deployed by integrating the mechanical and electrical equipment used for controlling and monitoring various services such as ventilation, lighting, power system, fire system and security system. The INFLIBNET Centre procured Honeywell Trend for the BMS solutions. Currently, BMS is used for controlling AHU (Air handling Unit) for conventional AC, TSEU for HVAC, fire system, UPS, etc. AHU and TSEU are currently operational in manual mode along with chiller plant.

2.4. Visitor Management System (VMS)

Visitor Management System is implemented for security management. Every visitor has to report to VMS for automatically photo embedded visiting pass. A photo camera captured a image of the visitor at main entrance and print visiting pass with details of the officials to meet. The VMS is able to record usage of the facilities by specific visitors and provide documentation of visitor's whereabouts. The INFLIBNET Centre is using Smart Visitor Management Software for storing data and generating a visiting pass for visitors.

2.5. Surveillance System using CCTVs

26 CCTV cameras from Honeywell are used for surveillance and monitoring purposes. Three types of CCTVs are deployed depending on the physical area that is put under surveillance. PTZ security cameras allow controlling the pan, tilt and zooming operations of the camera lens remotely or through programming. PTZ cameras installed in the Centre, have ability to move up, down, right, left and even zoom. Other two cameras are Box type's cameras and Dome type cameras. Dome cameras are installed indoor which has IR facility for night vision. Box cameras are not generally IR sensitive. All cameras are IP-based, advanced and PoE (Power on Ethernet) enabled. Live recordings of the CCTV cameras are displayed at the security gate as well as at the main entrance and reception. The provisions are made to monitor the movement of persons in the campus in important areas through PCs on demand. Storage capacity of 30 TB for archiving data is provisioned and video clip of particular time of any camera can be clipped from the storage for investigation, if required. Recordings of CCTVs are kept for 180 days.

2.6. IP Telephony

The INFLIBNET Centre uses Voice over IP technologies for placing and transmitting telephone calls over the existing IP network. Digital IP-based telephone service uses control protocol SIP to improve productivity of telephony services with specialised software and hardware. The INFLIBNET Centre uses three different categories of IP phones i.e. Siemens Open Stage 60 for scientists, Open Stage 40 for other staff member and Open Stage 15 for security and residences. The Open Stage phones in general are designed to be user-friendly with simplify implementation. Sensorial interfaces based on advanced technology solutions as well as large, tiltable, backlit colour graphical displays in TFT technology. The OpenStage 60, provided to scientists, provides features such as perfect high definition voice quality, crisp LCD display with 320*240 pixel colour TFT, 8 freely programmable keys with blue LEDs, LCD function keys with LED, built-in switch: 10/100 Ethernet port, power supply via PoE, mode keys and touch slider, open context menu, function keys and audio keys.

Software system provides IP phone service through an application that allows phone calls to be made from any computer with a sound card and mobile applications. The SIP (Session Initiated Protocol) service can be enabled for free SIP based VoIP network. The whole telephone system is part of low-voltage solution provided by M/s Progility Technologies Pvt. Ltd. It uses proprietary software called 'My portal' which is installed in all PCs connected with IP phones through RJ 45 connector and Ethernet cables. SIP facility allows to integrate extension number with mobile nos. of the scientists.

2.7. Video Conferencing Facility

The Centre has implemented CISCO H.323 video conferencing solution which facilitates multimedia conferences in IP network. This make use of the high Internet bandwidth available through NKN by

using MCU (Multipoint Controller Unit), multipoint processors, multipoint conference managers, etc. The same set up is also used for delivering live video lecture. For these purposes, a dedicated ISDN PRI line or shared lease line with dedicated bandwidth (min. 384 kbps) is used along with high definition resolution camera with codec, multipoint control unit and HD LCD/LED TV for display.

2.8. Public Addressing System (PAS)

A Public Addressing System (PAS) is installed at the Data Centre with its output at various places in the organisation. Soothing music is played lightly in the background in the premises of the building to give pleasant ambiance for working scientists and staff members. The audio also has centralized control for the sound management and local control to mute the music in silence zones, if required. The entire building is divided into various zones and zone-wise announcement is also possible with centralized control.

2.9. Boardroom and Meeting Room

In addition to audio, video conferencing and video projectors are used in the Centre. The technology implemented in the Board Room has the ability to control light, sound, video projection in an integrated environment by using a touch panel. Remote controlled pop-up projection screen, touch sensitive and sound activated microphone and a pop-up box fitted on the table with HDMI, VGA port, USB port, Ethernet socket, etc. is made available for each speaker. Board Room integrated solution with all these facilities are controlled with a wireless touchpad/I-Pad in conference rooms and meeting rooms.

2.10. Auditorium Facility

A well-equipped auditorium having professional sound system with an advanced dynamic mixer is required for hosting conference and seminar. For this purpose, auditorium at INFLIBNET Centre is equipped with professional sound system with premium ultra high headroom analogue mixer and mic preamps with DSP with 100 presets. The mixer is connected with amplifiers for Base (Woofers), FOH (Front of the House), surround speakers, crossover amplifier for balancing the gain of audio and stage monitor speaker with plug and play facility. The auditorium is also equipped with Wi-Fi hotspot. This audio system is synchronized with proper video projection facility having high quality projector (7000+ ANSI luminance, ceiling mounted projector with remote controlled dropdown lift). The motorised projection screen is wide enough (22 x 12 ft) to display the video projection for the clear view of all the people from various angle in the auditorium.

2.11. Training Lab

The Centre conducts training programmes including SOUL training programme on regular basis. A Training Laboratory with 42 PCs has been set-up with projection system and other equipment for

this purpose. All PCs in the Laboratory are connected to the Centre's LAN which is connected to the Internet. All PCs are set-up in dual operating system mode, i.e. Windows and Linux. All the PCs and network equipment are backed-up with Uninterrupted Power Supply (UPS).

2.11. SOUL Support Centre

The SOUL software, developed by the Centre, has more than 3,000 installations. SOUL Support Cell that is equipped with 5 PCs, scanner and printer. A facility has been created to provide support to the users of the SOUL Software with dedicated telephone line, fax and manpower special earmarked for this purpose.

2.12. Walk-in User's Facilities for Researchers

The Centre has 15 Internet-enabled all-in-one PCs with Wi-Fi earmarked for students, scholars and faculty from neighbouring institutions for accessing e-resources subscribed under the UGC-Infonet Digital Library Consortium. The license agreements signed with the publishers of e-resources provides for access to e-resources for "walk-in" users. More than 200 users availed this facility after its inauguration in July 2014 and an average of 40-50 users per month are using the facility.

3. Academic Interaction with Universities and other Research Institutions

Although the Centre receives a large number of applications from engineering colleges in Gujarat and neighbouring states for training at the INFLIBNET, the Centre selects limited student trainees. Many students had undergone practical training at the INFLIBNET Centre during the year under report. Facilities are also extended to the library science students of Central University of Gujarat as well as Gujarat University, Ahmedabad to avail library internship at the Centre. Details of no. of students and their institution are given below in Table 24.

Sl. No.	Name of the Institute	Degree	No. of students
1	Gujarat University, Ahmedabad	MLISc	3
2	Central University of Gujarat, Gandhinagar	MLISc	8
3	GH Patel PG Dept. of Computer Science & Technology, Sardar Patel University, Anand	MCA	1
4	Shri Swaminarayan Institute of Technology, Gandhinagar	MCA	1
5	Marwadi Education Foundation's Group of Institution, Rajkot	MCA	1

Table 24: Details of No. of Students/Trainees and their Institution

4. Other Notable Activities and Events

4.1. Independence Day Celebration

Fig. 50: Independence Day celebration with staff members and their families at INFLIBNET Centre, Gandhinagar

The INFLIBNET Centre celebrated 68th Independence Day on Friday, 15th August 2014. The National Flag was hoisted by Mr. Manoj Kumar K., Scientist D (CS), INFLIBNET Centre. Mr. Manoj Kumar addressed the staff members and their families regarding the activities of the Centre as shown in Figure 50. A number of games were organized for staff and their children during the event and prizes were distributed to the winners of the games.

4.2. Navratri

The INFLIBNET Centre celebrated Navratri festival with great enthusiasm. The Garba night was organized for the employees and their families on 30th September 2014. The function started with the Durga Puja and everyone from the campus, staff member and their families participated. The employees and their families turned out in their best traditional attire as shown in Figure 51. Dr. Jagdish Arora, Director, INFLIBNET Centre distributed the prizes for the best dance performers, best-dressed persons and children. The function concluded with the ceremonial dinner.

Fig. 51: INFLIBNET Centre's Staff with their Family Members during the Garba Celebration at the INFLIBNET Centre

4.3. Republic Day Celebration

Fig. 52: Republic Day

The INFLIBNET Centre celebrated 68th Republic Day on 26th January 2015. The National Flag was hoisted by Dr. Jagdish Arora, Director, INFLIBNET Centre. Dr. Arora addressed the staff members and their families about 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.

5.   Distinguished Visitors

Mr. Bhim Dhoj Shrestha, Head, DLIS, Tribhuvan University Central Library, Kathmandu

Dr. Mohan Raj Pradhan, Professor, DLIS, Tribhuvan University, Kathmandu

Prof. Ved Prakash, President, Governing Council & Chairman, University Grants Commission, New Delhi

Prof. N. Mukunda, Chairman, Governing Board, INFLIBNET Centre

Dr. (Mrs.) Manju Singh, Joint Secretary, University Grants Commission, New Delhi

Prof. E V Ramakrishnan, Vice-Chancellor (In-charge), Central University of Gujarat, Gandhinagar

Prof. Shivaji Rao S Kadam, Vice-Chancellor, Bharati Vidyapeeth, Pune

Prof. Karmeshu, Dean, Computer System & Sciences, Jawaharlal Nehru University, New Delhi

Dr. R K Chadha, Additional Secretary, Lok Sabha, New Delhi

Prof. I. K. Ravichandra Rao, Professor, PES Institute of Technology, Bengluru

Dr. P. Dastidar, Director, Ministry of Earth Sciences, New Delhi

Prof. Debal Dasgupta, Head, Dept of Russian Studies, M S University of Baroda, Vadodara

Prof. Ambuja Salgaonkar, University of Mumbai, Mumbai

Prof. M Anandakrishnan, Chairman, Standing Committee, e-PG Pathshala

Prof. Pradeep Varma, Program Director, National MOOCs Deployment, IIT, Mumbai

Dr. D. K. Singh, Professor, Dept of French Studies, BHU, Varanasi

Prof. C. G. Mahajan, IISER Mohali

Prof. R. C. Panda, Faculty of Sanskrit Learning, BHU, Varanasi

Prof. Uma Kanjilal, Director (ACIIL), IGNOU, New Delhi

Dr. S. B. Deshpande, Dept of Physiology, Institute of Medical Science, BHU, Varanasi

Dr. Jayashree Shinde, Head, Department of Educational Technology, SNDT Women's University, Mumbai

Dr. J. K. Vijayakumar, Manager, Library Collections and Information Services, KAUST, Saudi Arabia

Prof. S. A. Bari, Vice-Chancellor, Central University of Gujarat, Gandhinagar

Dr. Ramesh C. Gaur, Librarian, Jawaharlal Nehru University, New Delhi

Prof. Jai Rup Singh, Founder Vice-Chancellor, Centre University of Punjab and Former Member, Governing Board, INFLIBNET Centre

Dr. Usha Mujoo Munshi, Librarian, Indian Institute of Public Administration, New Delhi

Dr. Neerja A. Gupta, Principal, BSRA College, Ahmedabad

Dr. Gopakumar V, University Librarian, Goa University, Goa

Dr. R. Ravanan, HOD, Department of Statistics, Presidency College, Chennai

6.   Right to Information (RTI) Act

In order to promote transparency and accountability in the working of public authority and to empower the citizens to secure access to information under control of each public authority, the Government of India has brought out "the Right to Information Act, 2005". In accordance with the provisions of section 4(1) (b) of this Act, the INFLIBNET has put information and guidance of the stakeholders and the general public and hosted the same on the website of the Centre at http://www.inflibnet.ac.in. In terms of section 5(2) of the Right to Information Act 2005, the Director of the INFLIBNET Centre has been designated as Appellate Authority / Nodal Officer for all matters concerning to the Centre. The detailed information about RTI and responsible officers appointed for are available on the Centre's website at http://www.inflibnet.ac.in.

7.   Financial Status

The Audited Annual Accounts of INFLIBNET Centre for the financial year 2014-2015 is given in the Appendix XV.

Appendices

Building Committee
(As on 31st March 2015)

Prof. S K Khanna
Chief Advisor
Sharda University
Plot No. 32-34, Knowledge Park III
Greater Noida

Dr. M. N. Patel (Member)
Vice-Chancellor
Gujarat University
Navrangpura
Ahmedabad

Dr. Jagdish Arora (Member)
Director
INFLIBNET Centre
Infocity, Gandhinagar

Dr. R K Chadha (Member)
Additional Secretary
Lok Sabha, New Delhi

Mr. Rajeev Kathpalia (Member)
Vastu-Shilpa Consultants
"Sangath" Thaltej Road
Ahmedabad

Mr. Manoj Kumar K (Member)
Scientist-D (CS)
INFLIBNET Centre
Infocity, Gandhinagar

Mr. Harish Chandra (Convener)
Admn. Officer
INFLIBNET Centre
Infocity, Gandhinagar

Governing Council
(As on 31st March 2015)

Ex. Officio Members

Prof. Ved Prakash
President,
Governing Council & Chairman
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

Dr. H Devaraj
Vice-Chairman
University Grants Commission
Bahadur Shah Zafar Marg, New Delhi

Chairman
All India Council for Technical Education
7th Floor, Chanderlok Building
Janpath, New Delhi

Director General
CSIR, Anusandhan Bhawan
2, Rafi Marg, New Delhi

Prof. S K Thorat
Chairman
Indian Council of Social Science Research
(Ministry of HRD)
JNU Institutional Area, New Delhi

Director General
National Library, Belvedr, Kolkatta

Dr. Jagdish Arora
Director
INFLIBNET Centre
Infocity, Gandhinagar

Nominated Members

Prof. Mohmmad Miyan
Vice-Chancellor
Maulana Azad National Urdu University
Gachibowli
Hyderabad

Dr. V G Talawar
Vice-Chancellor
University of Mysore
Crawford Market
Mysore

Dr. Rajbir Singh
Director
Consortium for Educational Communication
IUAC (NSC) Campus
Aruna Asaf Ali Marg
New Delhi

All Members of the Governing Board are also member of the Governing Council

Governing Board
(As on 31st March 2015)

Ex. Officio Members

Prof. N Mukunda
Chairman, GB, INFLIBNET
Indian Academy of Sciences
Bangalore

Dr. H Devaraj
Vice-Chairman
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

Prof. (Dr.) Jaspal Singh Sandhu
Secretary
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

Prof. S A Bari
Vice-Chancellor
Central University of Gujarat
Sector 30, Gandhinagar

Dr. Jagdish Arora (Member Secretary)
Director
INFLIBNET Centre
Infocity, Gandhinagar

Member Secretary (Nominee)
All India Council for Technical Education
7th Floor, Chanderlok Building
Janpath, New Delhi

Nominated Members

Prof. Sunaina Singh
Vice Chancellor
English and Foreign Languages University
Osmania University Campus, Hyderabad

Prof. Shivaji Rao S Kadam
Vice-Chancellor
Bharati Vidyapeeth
Bharati Vidyapeeth Bhavan
Lal Bahadur Shastri Marg, Pune

Dr. R K Chadha
Additional Secretary
Lok Sabha , New Delhi
 (Eminent Librarian)

Prof. Karmeshu
Dean
Computer System & Sciences
Jawaharlal Nehru University
New Mehrauli Road, New Delhi

Dr. Nandini Mukherjee
Head, IT
Jadavpur University
188, Raja S C Mallick Road
Jadavpur, Kolkatta

Prof. Ajit Kembhavi
Director
Inter-University Centre for Astronomy and
Astrophysics (IUCAA), Pune

Dr. Rajan M Welukar
Vice-Chancellor
University of Mumbai, Mumbai

Finance Committee
(As on 31st March 2015)

Ex.Officio Members	Nominated Member
Prof. N Mukunda	**Dr. R K Chadha**
Chairman, GB, INFLIBNET Centre	Additional Secretary
Indian Academy of Sciences	Lok Sabha
Bangalore	New Delhi
Prof. (Dr.) Jaspal Singh Sandhu	**Dr. Jagdish Arora**
Secretary	Director
University Grants Commission	INFLIBNET Centre
Bahadur Shah Zafar Marg	Infocity, Gandhinagar
New Delhi	
	Mr. Ashok Kumar Rai
Dr. (Mrs.) Manju Singh	Scientist-D (CS)
Jt.Secretary	INFLIBNET Centre
University Grants Commission	Infocity, Gandhinagar
Bahadurshah Zafar Marg	(Sr. Professional)
New Delhi	
	Mr. Harish Chandra
	Admn. Officer
	INFLIBNET Centre
	Infocity, Gandhinagar
	(Admn./Accounts Officer)
	(Non-Member Secretary)

Technical, Administrative and Supporting Staff
(As on 31st March 2015)

Scientific & Technical Staff

Sl. No.	Name of the employee	Designation
1.	Dr. Jagdish Arora	Director
2.	Mr. Manoj Kumar K.	Scientist-D (CS)
3.	Mr. Ashok Kumar Rai	Scientist-D (CS)
4.	Mr. Yatrik R. Patel	Scientist-D (CS)
5.	Mr. H. G. Hosamani	Scientist-C (LS)
6.	Mr. Kannan P.	Scientist-C (LS)
7.	Mr. Abhishek Kumar	Scientist-C (CS)
8.	Mr. Swapnil P. Patel	Scientist-B (CS)
9.	Mr. Divyakant Vaghela	Scientist-B (CS)
10.	Mr. Gaurav Prakash	Scientist-B (CS)
11.	Mrs. Vaishali A. Shah	Scientist-B (LS)
12.	Ms. Kruti J. Trivedi	Scientist-B (LS)
13.	Mr. Dinesh Ranjan Pradhan	Scientist-B (LS)
14.	Mr. Mitesh Pandya	Scientist-B (LS)
15.	Mr. Hitesh H. Solanki	Scientist-B (CS) (from 11.07.2014)
16.	Mrs. Hema Cholin	S.T.O – I (LS)
17.	Ms. Suboohi Siddiqui	S.T.O.-I (LS) (from 12.02.2015)
18.	Mr. Saroja Kumar Panda	STA (LS)
19.	Mr. Dharmeshkumar A. Shah	STA (CS)
20.	Mr. Mohit Kumar	STA (CS)
21.	Mr. Vijaykumar M Shrimali	STA (CS)
22.	Mrs. Roma Yogesh Asnani	STA (LS)
	Administrative & Support Staff	
23.	Mr. Harish Chandra	Administrative Officer
24.	Mrs. S. M. Munshi	Section Officer
25.	Mr. Sanjay R. Shah	Office Assistant-II
26.	Mrs. Yamini J. Dave	Office Assistant-II (from August 2014)
27.	Mrs. R. B. Pendharkar	Office Assistant-II (from August 2014)
28.	Mr. Ankur B. Parikh	Office Assistant-II (from August 2014)
29.	Mr. Shyam T. Yadav	Assistant (from 02.07.2014)

30.	Mr. Vinod B. Dantani	Helper
31.	Mr. Bakul M. Parmar	Lab Attendant
Contractual Staff in Computer Science		
32.	Mr. Ramiz Malik	Sr. Project Officer (CS)
33.	Mrs. Hetal Suhag Oza	Sr.Project Officer(CS) (from 08.12.2014)
34.	Ms. Nabila M. Shaikh	Project Officer (CS)
35.	Ms. Bhargavi A. Kadiya	Project Officer(CS)
36.	Mrs. Shweta N. Brahmbhatt	Project Officer(CS)
38.	Mr. Mayur A. Gohel	Project Associate(CS)
39.	Mr. Swyamprakash Rajput	Project Associate(CS)
40.	Mr. Darshankumar Dashrathlal Modi	Project Associate(CS) (from 19.08.2014)
41.	Mr. Parthkumar Mansukhbhai Viroja	Project Associate(CS) (from 05.09.2014)
42.	Mr.Akshay Kumar Choudhary	Project Associate(CS) (from 01.09.2014)
43.	Mr. Tejaskumar Upendrabhai Kadiya	Project Associate(CS))from 19.09.2014)
44.	Mr. Nrutik M. Prajapati	Project Associate(CS) (from 30.10.2014)
45.	Mr. Shrikant Kumar	Project Associate(CS) (from 19.12.2014)
46.	Mr. Nirav G. Rana	Project Associate(CS) (from 19.08.2014)
47.	Ms. Ankita Gordhanbhai Prajapati	Project Assistant(CS) (from 01.09.2014)
48.	Mr. Jay Alkeshkumar Vora	Project Assistant(CS) (from 27.08.2014)
49.	Ms. Asha P. Vaghela	Project Assistant(CS) (from 01.09.2014)
50.	Ms. Manisha D. Pandya	Project Assistant(CS) (from 08.12.2014)
51.	Mr. Rahul I. Maheta	Project Assistant(CS) (from 26.12.2014)
Contractual Staff in Library Science		
52.	Mr. Kamlesh S. Vegad	Project Officer (LS)
53.	Ms. Seema S. Chavda	Project Officer (LS)
54.	Ms. Archita M. Muchhadia	Project Officer (LS)
55.	Mr. Vikram Singh Rathore	Project Officer (LS) (from 10.12.2014)
56.	Mr. Kuldeep Matieda	Project Officer(LS) (from 11.12.2014)
57.	Ms. Alpa Acharya	Project Associate(LS)
58.	Ms. Rajeshri J. Makwana	Project Associate(LS) (from 11.12.2014)
59.	Ms. Parul B. Chavda	Project Associate(LS) (from 01.01.2015)
60.	Mr. Sanjay Kumar Pillai	Project Associate(LS) (from 08.12.2014)
61.	Ms. Sonal D. Vaghela	Project Associate (LS) (from 01.12.2014)
62.	Ms. Arpita U. Barot	Project Assistant (LS)
63.	Ms. Neha V. Jain	Project Assistant(LS) (from 03.03.2015)
64.	Ms. Bhakruti N. Rashtrapal	Project Assistant(LS) (from 01.01.2015)
65.	Ms. Dipika M. Makwana	Project Assistant(LS) (from 17.12.2014)

66.	Mr. Subodh Kumar Bajpai	Project Assistant(LS)(from 19.12.2014)
67.	Mr. K. Kameswaran	Project Assistant(LS) (from 28.11.2014)
68.	Mr. Atul V. Patel	Project Assistant(LS) (from 01.12.2014)
63.	Ms. Neha V. Jain	Project Assistant(LS) (from 03.03.2015)

No. of Records Contributed by the Participating Universities to the Books and Theses Databases of the Centre

Sl. No.	Name of the University	Books Records	Theses Records
1	ABV-Indian Institute of Information Technology and Management, Gwalior, Madhya Pradesh		1
2	Acharya N G Ranga Agricultural University, Nagarjunanagar, Andhra Pradesh		276
3	Acharya Nagarjuna University, Guntur, Andhra Pradesh	61,448	1,497
4	Adikavi Nannya University, Rajahmundry, Andhra Pradesh		4
5	Ahmedabad University, Ahmedabad, Gujarat	22,341	
6	Alagappa University, Karaikudi, Tamil Nadu	43,635	179
7	Aligarh Muslim University, Aligarh, Uttar Pradesh	1,62,157	9,782
8	All India Institute of Medicine Sciences, New Delhi		209
9	Amrita Vishwa Vidyapeetham, Amritnagar, Coimbatore		37
10	Anand Agriculture University, Anand, Gujarat		1
11	Andhra Pradesh University of Law, Visakhapatnam, Andhra Pradesh	1,604	
12	Andhra University, Vishakhapattanam, Andhra Pradesh	2,16,049	6,865
13	Anna University, Chennai, Tamil Nadu	98,640	1,666
14	Annamalai University, Annamalai Nagar, Tamil Nadu	4,73,810	2,241
15	Assam Agricultural University, Jorhat, Assam		84
16	Assam University, Silchar, Assam	32,668	134
17	Avinashilingam University for Women, Coimbatore, Tamil Nadu		148
18	Avinashlingam Institute for Home Science, Coimbatore, Tamil Nadu	90,798	
19	Awadhesh Pratap Singh Vishwavidyalaya, Rewa, Madhya Pradesh		1,057
20	B L D E University, Bijapur, Karnataka	12,301	
21	Baba Ghulam Shah Badshah University, Rajouri, Jammu & Kashmir	6,567	
22	Babasaheb Bhimrao Ambedkar Bihar University, Muzaffarpur, Bihar		874
23	Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh	15,850	19
24	Banaras Hindu University, Varanasi, Uttar Pradesh	4,45,000	14,913
25	Banasthali University, Banasthali, Rajasthan	75,620	109
26	Bangalore University, Bangalore, Karnataka	1,30,000	1,726
27	Barkatullah Vishwavidyalaya, Bhopal, Madhya Pradesh		1,067
28	Bengal Engineering And Science University, Howarha, West Bengal		5
29	Berhampur University, Berhampur, Orrisa		394
30	Bhagwant University, Ajmer, Rajasthan		10

31	Bharath University, Chennai, Tamil Nadu		20
32	Bharathiar University, Coimbatore, Tamil Nadu	87,115	70
33	Bharathidasan University, Tiruchirapalli, Tamil Nadu	52,774	479
34	Bharati Vidyapeeth, Pune, Maharashtra	20,215	42
35	Bhavnagar University, Bhavnagar, Gujarat	44,385	691
36	Bhupendra Narayan Mandal University, Madhepur, Bihar		528
37	Bidhan Chandra Krishi Viswavidyalaya, Nadia, West Bengal		406
38	Birla Institute of Technology & Science, Pilani, Rajashthan	72,015	276
39	Birsa Agricultural University, Ranchi, Jharkhand		98
40	Bundelkhand University, Jhansi, Uttar Pradesh		1,015
41	Burdwan University, Burdwan, West Bengal	45,000	
42	C S M Medical University, Lucknow, Uttar Pradesh	366	
43	Central Drugs Research Institute, Lucknow, Uttar Pradesh		45
44	Central Institute of English & Foreign Language , Hyderabad, Andhra Pradesh	50,000	104
45	Central Institute of Fisheries Education, Mumbai, Maharashtra		2
46	Central University of Tibetan Studies, Varanasi, Uttar Pradesh	25,145	
47	Chanakya National Law University, Patna, Bihar		2
48	Chandra Shekhar Azad University of Agriculture & Technology, Kanpur, Uttar Pradesh		371
49	Chatrapati Shahu Ji Maharaj University, Kanpur, Uttar Pradesh	5,000	2,075
50	Chaudhary Charan Singh Haryana Agricultural University, Hissar, Haryana		1,049
51	Chaudhary Charan Singh University, Meerut, Uttar Pradesh	79,796	1,930
52	Chaudhary Devi Lal University, Sirsa, Haryana		38
53	Chaudhary Sarwan Kumar Himachal Pradesh Krishi Vishwavidyalaya, Palampur, Himachal Pradesh		543
54	CMJ University, Shillong, Meghalaya		3
55	Cochin University of Science & Technology, Kochi, Kerala	72,693	2,079
56	Dakshina Bharat Hindi Prachar Sabha, Chennai, Tamil Nadu		24
57	Dayalbagh Educational Institute, Agra, Uttar Pradesh		316
58	Deccan College Post Graduate & Research Institute, Pune, Maharashtra	1,40,000	102
59	Deenbandhu Chhotu Ram University of Science & Technology, Murthal (Haryana)	24,211	
60	Deendayal Upadhyay Gorakhpur University, Gorakhpur, Uttar Pradesh	15,992	1,632
61	Defence Science Centre, Delhi		13
62	Dev Sanskriti Vishwavidyalaya, Dehradun, Uttaranchal		129

63	Devi Ahilya Vishwavidyalaya, Indore, Madhya Pradesh	18,000	2,784
64	Dharmsinh Desai University, Nadiad, Gujarat	16,063	
65	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, Gujarat		4
66	Dibrugarh University, Dibrugarh, Assam	57,466	612
67	Doon University, Dehradun, Uttarakhand	3,707	
68	Dr. B R Ambedkar Open University, Hyderabad, Andhra Pradesh	89,402	1
69	Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab		1
70	Dr. Babasaheb Ambedkar Open University, Ahmedabad, Gujarat		2
71	Dr.Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra	36,015	2,581
72	Dr.Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Maharashtra		24
73	Dr. Bhim Rao Ambedkar University, Agra, Uttar Pradesh	1,33,000	3,678
74	Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh		2,664
75	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra		195
76	Dr. Ram Manohar Lohia Avadh University, Faizabad, Uttar Pradesh		366
77	Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Solan, Himachal Pradesh		462
78	Dravidian University, Kuppam, Andhra Pradesh	32,758	3
79	Eternal University, Baru Sahib, Sirmour, Himachal Pradesh		7
80	Fakir Mohan University, Balasore, Orissa		26
81	Forest Research Institute, Dehradun, Uttaranchal		355
82	Gandhigram Rural Institute, Gandhigram, Tamil Nadu	1,66,196	257
83	Ganpat University, Mehsana, Gujarat		1
84	Gauhati University, Guwahati, Assam	1,18,962	2,560
85	GLA University, Mathura, Uttar Pradesh	11,568	
86	Goa University, Panaji, Goa	1,09,886	387
87	Gokhale Institute of Politics and Economics, Pune, Maharashtra	2,46,000	6
88	Govind Ballabh Pant University of Agriculture and Technology, Pant Nagar, Uttaranchal		622
89	Graphic Era University, Dehradun, Uttrakhand		3
90	Gujarat Agricultural University, Anand, Gujarat		152
91	Gujarat Ayurved University, Jamnagar, Gujarat		202
92	Gujarat Forensic Sciences University, Gandhinagar, Gujarat		2
93	Gujarat University, Ahmedabad, Gujarat	2,50,000	1,617
94	Gujarat Vidyapith, Ahmedabad, Gujarat	5,62,512	53
95	Gulbarga University, Gulbarga, Karnataka	84,964	401

96	Guru Angad Dev Veterinary and Animal Sciences University, Hissar, Haryana		11
97	Guru Ghasidas University, Bilaspur, Chhattisgarh	46,326	1,920
98	Guru Gobind Singh Indraprasth University, Delhi	17,374	
99	Guru Jambheshwar University of Science & Technology, Hissar, Haryana	17,507	364
100	Guru Nanak Dev University, Amritsar, Punjab	1,22,302	737
101	Gurukula Kangri Vishwavidyalaya, Haridwar, Uttaranchal	90,372	127
102	Hemchandracharya North Gujarat University, Patan, Gujarat	68,534	1,238
103	Hemwati Nandan Bahuguna Garhwal University, Garhwal, Uttaranchal		457
104	Himachal Pradesh University, Shimla, Himachal Pradesh	46,582	1,227
105	Homi Bhabha National Institute, Mumbai		155
106	IIT Bhubaneswar, Bhubaneswar, Orissa	1,028	
107	Indian Agricultural Research Institute, New Delhi		1,997
108	Indian Institute of Advanced Study, Shimla, Himachal Pradesh	1,36,961	
109	Indian Institute of Management, Bangalore, Karnataka	1,17,518	
110	Indian Institute of Science Bangalore, Bengaluru, Karnataka		2,174
111	Indian Institute of Technology Bombay, Mumbai, Maharashtra		1,161
112	Indian Institute of Technology Delhi, New Delhi		3,273
113	Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh		1,058
114	Indian Institute of Technology Kharagpur, Kharagpur, West Bengal		1,448
115	Indian Institute of Technology Madras, Chennai, Tamil Nadu		1,694
116	Indian Institute of Technology Roorkee, Roorkee, Uttarakhand	70,000	2,458
117	Indian Institute of Technology, Hyderabad, Andhra Pradesh	8,480	
118	Indian Institute of Technology, Mandi, Himachal Pradesh	8,154	
119	Indian Institute of Technology, Ropar, Punjab	4,274	
120	Indian Institute of Tropical Meteorology, Pune, Maharashtra		2
121	Indian Law Institute, New Delhi		1
122	Indian School of Mines, Dhanbad, Jharkhand		438
123	Indian Statistical Institute, Kolkata, West Bengal		125
124	Indian Veterinary Research Institute, Izatnagar, Uttar Pradesh		111
125	Indira Gandhi National Open University, New Delhi		4
126	Indira Kala Sangeet Vishwavidyalaya, Khairagarh, Chattisgarh	13,697	136
127	Industrial Toxicology Research Centre, Lucknow, Uttar Pradesh		9
128	Institute for Social and Economic Change, Bangalore, Karnataka		40
129	International Institute for Population Sciences, Govandi, Mumbai, Maharashtra	51,139	124
130	Jadavpur University, Kolkata, West Bengal	2,23,670	1,307

131	Jagadguru Ramanandacharya Rajasthan Sanskrit University, Jaipur, Rajasthan		12
132	Jai Narain Vyas University, Jodhpur, Rajasthan	4,823	1,976
133	Jai Prakash Vishwavidyalaya, Chapra, Bihar		21
134	Jain Vishva Bharati Institute, Ladnun, Rajasthan	40,516	127
135	Jamia Hamdard University, New Delhi	37,487	323
136	Jamia Milia Islamia, New Delhi	64,177	1,373
137	Jawaharlal Nehru Institute of Postgraduate Medical Education and Research, Dhanvantri Nagar, Puducherry		2
138	Jawaharlal Nehru Krishi Vishwavidyalaya, Jabalpur, Madhya Pradesh		206
139	Jawaharlal Nehru Technological University, Hyderabad, Andhra Pradesh		610
140	Jawaharlal Nehru University, New Delhi	3,11,067	5,524
141	Jaypee University of Information Technology, Solan, Himachal Pradesh		2
142	Jiwaji University, Gwalior, Madhya Pradesh	25,000	1,569
143	Kakatiya University, Warangal, Andhra Pradesh	56,837	2,206
144	Kalasalingam University, Chennai, Tamil Nadu		2
145	Kameshwar Singh Darbhanga Sanskrit University, Darbhangha, Bihar	1,351	257
146	Kannada University, Hampi, Karnataka	34,877	203
147	Kannur University, Kannur, Kerala	28,503	317
148	Karnataka State Women University, Bijapur, Karnataka	60,165	6
149	Karnatak University, Dharwad, Karnataka	1,45,111	3,288
150	Karnataka State Open University, Mysore, Karnataka		49
151	Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar, Karnataka		102
152	Kavikulaguru Kalidas Sanskrit University, Ramtek, Nagpur, Maharashtra		2
153	Kerala Agricultural University, Ernakulam, Kerala		174
154	KLE University, Belgam, Karnataka		6
155	Koneru Lakshmaiah Education Foundation (K L University), Guntur, Andhra Pradesh		5
156	Krantiguru Shyamji Krishna Verma Kachchh University, Bhuj, Gujarat		13
157	Krishna Kanta Handiqui State Open University, Gauhati, Assam	9,073	
158	Kumaun University, Nainital, Uttaranchal	5,000	970
159	Kurukshetra University, Kurukshetra, Haryana	2,00,000	4,456

160	Kuvempu University, Shankaraghatta, Karnataka	46,693	1,230
161	Lakshmibai National Institute of Physical Education University, Gwalior, Madhya Pradesh		103
162	Lalit Narayan Mithila University, Darbhangha, Bihar		182
163	M J P Rohilkhand University, Bareilly, Uttar Pradesh		2,913
164	Madhya Pradesh Bhoj University, Bhopal, Madhya Pradesh		61
165	Madurai Kamaraj University, Madurai, Tamil Nadu	1,94,525	952
166	Magadh University, Bodhgaya, Bihar		1,115
167	Maharaja Sayajirao University of Baroda, Vadodara, Gujarat	4,29,722	3,018
168	Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan		132
169	Maharashtra Animal & Fishery Sciences University, Mumbai, Maharashtra		11
170	Maharishi Mahesh Yogi Vedic Vishwavidyalaya, Noida, Uttar Pradesh		2
171	Maharshi Dayanand Saraswati University, Ajmer, Rajasthan	27,095	48
172	Maharshi Dayanand University, Rohtak, Haryana		2,387
173	Maharshi Markandeshwar University, Mullana-Ambala, Haryana		18
174	Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra		51
175	Mahatma Gandhi Chitrakoot Gramoday Vishwavidyalaya, Chitrakoot, Madhya Pradesh		7
176	Mahatma Gandhi Gramoday Vishwavidyalaya, Chitrakoot, Madhya Pradesh	5,000	
177	Mahatma Gandhi Kashi Vidyapeeth, Varanasi, Uttar Pradesh		143
178	Mahatma Gandhi University, Kottayam, Kerala	70,439	1,608
179	Mahatma Phule Krishi Vidyapeeth, Rahuri, Maharashtra		458
180	Makhanlal Chaturvedi Rashtriya Patrakarita Vishwavidyalaya, Bhopal, Madhya Pradesh		27
181	Mangalore University, Mangalore, Karnataka	35,649	588
182	Manipal Academy of Higher Education, Manipal, Karnataka		8
183	Manipal University, Manipal, Karnataka		135
184	Manipur University, Imphal, Manipur	71,547	1,510
185	Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu	42,344	65
186	Marathwada Krishi Vidyapeeth, Parbhani, Maharashtra		554
187	MATS University, Raipur, Chhattisgarh		2
188	Maulana Azad National Institute of Technology, Hyderabad, Andhra Pradesh		67
189	Maulana Azad National Urdu University, Hyderabad, Andhra	9,261	

	Pradesh		
190	Mizoram University, Aizwal, Mizoram	19,585	157
191	Mohanlal Sukhadia University, Udaipur, Rajasthan	1,07,621	1,022
192	Mother Teresa Women`s University, Kodaikanal, Kerala	34,113	7
193	N T R University of Health Sciences, Vijaywada, Andhra Pradesh		1
194	Nagaland University, Kohima, Nagaland	15,556	47
195	NALSAR University of Law, Hyderabad, Andhra Pradesh	14,415	
196	Narendra Dev University of Agriculture and Technology, Faizabad, Uttar Pradesh		118
197	National Botanical Research Institute, Lucknow, Uttar Pradesh		3
198	National Brain Research Centre, Manesar, Gurgaon, Haryana		9
199	National Chemical Laboratory, Pune, Maharashtra		16
200	National Dairy Research Institute, Karnal, Haryana		170
201	National Institute of Mental Health and Neuro Sciences, Bengaluru, Karnataka		331
202	National Institute of Pharmaceutical Education and Research, Hyderabad, Andhra Pradesh		177
203	National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh	23,900	
204	National Institute of Technology Hamirpur, Hamirpur, Himachal Pradesh		9
205	National Institute of Technology Karnataka		17
206	National Institute of Technology Rourkela, Rourkela, Jharkhand		3
207	National Institute of Technology Silchar, Silchar, Assam		11
208	National Institute of Technology Warangal, Warangal, Andhra Pradesh		11
209	National Law Institute University, Bhopal, Madhya Pradesh	5,947	
210	National Sugar Institute, Kanpur, Uttar Pradesh		3
211	National University of Advanced Legal Studies, Kochi, Kerala	5,749	
212	Netaji Subhas Open University, Kolkata, West Bengal		1
213	Nirma University, Ahmedabad, Gujarat		21
214	North Eastern Hill University, Shillong, Meghalaya	84,523	1,423
215	North Eastern Regional Institute of Science & Technology, Itnanagar, Arunachal Pradesh		6
216	North Maharashtra University, Jalgaon, Maharashtra	35,000	370
217	North Orissa University, Mayurbhanj, Orissa		5
218	Orissa University of Agricultural and Technology, Bhubaneswar, Orissa		106
219	Osmania University, Hyderabad, Andhra Pradesh	1,02,741	7,159

220	Padmashree Dr. D Y Patil University, Navi Mumbai Maharashtra		2
221	Pandit Ravishankar Shukla University, Raipur, Chhattisgarh	1,56,564	1,217
222	Pandit Sundarlal Sharma Open University, Bilaspur, Chhattisgarh		8
223	Panjab University, Chandigarh, Punjab	2,05,168	3,773
224	Patna University, Patna, Bihar		727
225	Periyar University, Salem, Tamil Nadu	25,606	46
226	Pondicherry University, Puducherry	37,174	1,142
227	Postgraduate Institute of Medical Education & Research, Chandigarh, Punjab		332
228	Potti Sreeramulu Telugu University, Hyderabad	25,936	119
229	Pravara Institute of Medical Sciences, Loni, Maharashtra	20,529	
230	PRIST University, Thanjavur, Tamil Nadu		5
231	Punjab Agricultural University, Ludhiana, Punjab		1,775
232	Punjabi University, Patiala, Punjab	34,254	1,862
233	Rabindra Bharati University, Howarha, West Bengal	16,924	425
234	Rajasthan Agricultural University, Bikaner, Rajasthan		166
235	Rajendra Agricultural University, Samastipur, Bihar		160
236	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, Madhya Pradesh	33,673	56
237	Rajiv Gandhi University, Doimukh, Arunachal Pradesh	25,000	89
238	Raman Research Institute, Bengaluru, Karnataka		5
239	Ranchi University, Ranchi, Jharkhand	60,554	336
240	Rani Durgawati Vishwavidyalaya, Jabalpur, Madhya Pradesh	20,000	1,789
241	Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, Maharashtra	2,02,803	10,408
242	Rashtriya Sanskrit Sansthan, Janakpuri, New Delhi		40
243	Rashtriya Sanskrit Vidyapeetha, Tirupati, Andhra Pradesh	16,690	182
244	S R M University (S R M Institute of Science and Technology) Chennai - Tamil Nadu		38
245	Sam Higginbotom Institute of Agriculture, Technology & Sciences, Allahabad, Uttar Pradesh		283
246	Sambalpur University, Sambalpur, Orissa	32,993	1,196
247	Sampurnanand Sanskrit Vishvavidyalaya, Varanasi, Uttar Pradesh	10,000	82
248	Sant Gadge Baba Amravati University, Amravati, Maharashtra	71,862	133
249	Sant Longowal Institute of Engineering and Technology, Longowal, Punjab		14
250	Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat	2,24,673	942
251	Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat		32
252	Sathyabama University, Chennai, Tamil Nadu		2

253	Saurashtra University, Rajkot, Gujarat	20,965	2,042
254	Saveetha University, Tiruvallur, Tamil Nadu		2
255	School of Planning and Architecture, New Delhi		3
256	Shanmugha Arts, Science, Technology & Research Academy University (SASTRA University), Thanjavur, Tamil Nadu		1
257	Sher-e-Kashmir University of Agricultural Sciences and Technology Jammu, Jammu, Jammu &Kashmir		48
258	Sher-i-Kashmir Institute of Medical Science, Srinagar, Jammu & Kashmir		1
259	Shivaji University, Kolhapur, Maharashtra	60,506	1,553
260	Shobhit University, Meerut, Uttar Pradesh		43
261	Shreemati Nathibai Damodar Thackersey Women's University, Mumbai, Maharashtra	70,577	669
262	Shri Jagannath Sanskrit Vishvavidyalaya, Puri, Orissa		62
263	Shri Jagdishprasad Jhabarmal Tibarewala University, Vidyanagari, Chudela, Rajasthan		91
264	Shri Mata Vaishno Devi University, Kakryal, Katra, Jammu &Kashmir	6,983	21
265	Sido Kanhu Murmu University, Dhumka, Jharkhand		4
266	Sikkim-Manipal University of Health, Medical & Technological Sciences, Gangtok, Sikkim		5
267	Siksha O Anusandhan University, Bhubaneswar, Orissa		24
268	Solapur University, Solapur, Maharashtra		61
269	Sree Chitra Tirunal Institute for Medical Sciences & Technology, Travancore, Kerala	24,110	7
270	Sree Sankaracharya University of Sanskrit, Kalady, Kerala	42,822	179
271	Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kanchipuram, Tamil Nadu		14
272	Sri Krishnadevaraya University, Anantapur, Andhra Pradesh	35,167	351
273	Sri Padmavati Mahila Vishwavidyalaya, Tirupati, Andhra Pradesh	37,088	63
274	Sri Ramachandra University, Chennai, Tamil Nadu		93
275	Sri Sathya Sai Institute of Higher Learning, Anantpur, Andhra Pradesh	28,937	50
276	Sri Venkateswara University, Tirupati, Andhra Pradesh	88,864	2,629
277	Sumandeep Vidyapeeth, Vadodara, Gujarat		3
278	Suresh Gyan Vihar University, Jaipur, Rajasthan		30
279	Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra	38,549	474
280	Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA)	7,543	38

	University, Bengaluru, Karnataka		
281	Tamil Nadu Dr. Ambedkar Law University, Chennai, Tamil Nadu		14
282	Tamil Nadu Dr. M.G.R. Medical University, Chennai, Tamil Nadu		3
283	Tamil Nadu Veterinary and Animal Sciences University, Chennai, Tamil Nadu		191
284	Tamil University, Thanjavur, Tamil Nadu	7,222	
285	Tamilnadu Agricultural University, Coimbatore, Tamil Nadu		404
286	Tamilnadu Physical Education and Sports University Chennai, Tamil Nadu		17
287	Tata Institute of Fundamental Research, Mumbai, Maharashtra		20
288	Tata Institute of Social Sciences, Govandi, Mumbai, Maharashtra	56,423	122
289	Teri University, New Delhi		22
290	Tezpur University, Tezpur, Assam	25,888	175
291	Thapar Institute of Rngineering and Technology, Patiala, Punjab	16,806	
292	Thapar University, Patiala, Punjab		304
293	The WB National University of Juridical Sciences, Kolkata, West Bengal	11,027	
294	Tilak Maharashtra Vidyapeeth, Pune, Maharashtra	63,777	119
295	Tilkamanjhi Bhagalpur University, Bhagalpur, Bihar	3,147	418
296	Tripura University, Suryamaninagar, Tripura		94
297	University College of Medical Sciences, Delhi		1
298	University of Agricultural Sciences		447
299	University of Allahabad, Allahabad, Uttar Pradesh	5,300	1,956
300	University of Bundelkhand, Jhansi, Uttar Pradesh	30,110	
301	University of Burdwan, Burdwan, West Bengal		3,808
302	University of Calcutta, Kolkata, West Bengal	15,690	9,550
303	University of Calicut, Calicut, Kerala	69,847	1,751
304	University of Delhi, New Delhi	6,88,174	17,283
305	University of Hyderabad, Hyderabad, Andhra Pradesh	3,76,217	659
306	University of Jammu, Jammu Tawi, Jammu & Kashmir	1,10,643	4,911
307	University of Kalyani, Kalyani, West Bengal	4,323	345
308	University of Kashmir, Srinagar, Jammu & Kashmir	3,10,853	440
309	University of Kerala, Thiruvananthapuram, Kerala	1,31,249	1,581
310	University of Lucknow, Lucknow, Uttar Pradesh		2,708
311	University of Madras, Chennai, Tamil Nadu	50,000	3,951
312	University of Mumbai, Mumbai, Maharashtra	8,27,773	6,013
313	University of Mysore, Mysore, Karnataka	1,29,945	1,113
314	University of North Bengal, Siligudi, West Bengal	1,78,357	1,225
315	University of Pune, Pune, Maharashtra	35,592	3,431

316	University of Rajasthan, Jaipur, Rajasthan		7,175
317	Utkal University of Culture, Bhubaneswar, Orissa		1
318	Utkal University, Bhubneswar, Orissa		1,880
319	Uttar Pradesh Technical University, Lucknow, Uttar Pradesh		37
320	Vardhaman Mahaveer Open University, Kota, Rajasthan		42
321	Veer Bahadur Singh Purvanchal University, Jaunpur, Uttar Pradesh		69
322	Veer Kunwar Singh University, Ara, Bihar		67
323	Veer Narmad South Gujarat University, Surat, Gujarat	2,00,567	320
324	Vellore Institute of Technology, Vellore, Tamil Nadu		3
325	Vidyasagar University, Mednapur, West Bengal	41,320	206
326	Vikram University, Ujjain, Madhya Pradesh		2,074
327	Vinoba Bhave University, Hazaribag, Jharkhand		365
328	Visva Bharati University, Shanti Niketan, West Bengal	24,336	525
329	Visvesvaraya National Institute of Technology, Nagpur, Maharashtra		65
330	Visvesvaraya Technological University, Belgaum, Karnataka		181
331	West Bengal University of Technology, Kolkata, West Bengal	15,007	2
332	Yashwantrao Chavan Maharashtra Open University, Nasik, Maharashtra	36,253	89
	Total Records	131,57,384	2,65,727

State-Wise List of the SOUL Installations

Sl. No.	Name of the State	Installation	1st April, 14 to 31st March, 15	Total
1	Andhra Pradesh	239	19	258
2	Assam	42	13	55
3	Bihar	14	0	14
4	Chhattisgarh	28	2	30
5	Daman	2	0	2
6	Goa	3	0	3
7	Gujarat	802	48	850
8	Haryana	63	23	86
9	Himachal Pradesh	51	8	59
10	Jammu & Kashmir	68	1	69
11	Jharkhand	6	1	7
12	Karnataka	31	0	31
13	Kerala	129	1	130
14	Madhya Pradesh	215	14	229
15	Maharashtra	373	34	407
16	Meghalaya	2	1	3
17	Mizoram	17	4	21
18	Nepal	2	0	2
19	New Delhi	37	1	38
20	North Eastern States	276	0	276
21	Orissa	9	0	9
22	Pondicherry	5	0	5
23	Punjab	121	1	122
24	Rajasthan	56	2	58
25	Tamil Nadu	30	0	30
26	Uttar Pradesh	79	7	86
27	Uttaranchal	19	0	19
28	West Bengal	113	12	125
	Total	2,832	192	3,024

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Universities and IUCs that are provided Access to E-resources under UGC-INFONET Digital Library Consortium

Sl. No.	University Name	Number of e-resources
1.	Aligarh Muslim University, Aligarh, Uttar Pradesh	25
2.	Andhra University, Visakhapatnam, Andhra Pradesh	24
3.	Anna University, Chennai, Tamil Nadu	23
4.	Avinashilingam University For Women, Coimbatore, Tamil Nadu	21
5.	Banaras Hindu University, Varanasi, Uttar Pradesh	25
6.	Bangalore University, Bengaluru, Karnataka	25
7.	Birla Institute of Technology and Science, Pilani, Rajasthan	23
8.	Calcutta University, Calcutta, West Bengal	25
9.	Cochin University of Science and Technology, Cochin, Kerala	24
10.	Devi Ahilya University, Indore, Madhya Pradesh	22
11.	Gauhati University, Guwahati, Assam	25
12.	Goa University, Goa, Goa	25
13.	Guru Nanak Dev University, Amritsar, Punjab	25
14.	Jadavpur University, Kolkata, West Bengal	25
15.	Jamia Hamdard University, New Delhi	20
16.	Jamia Millia Islamia, New Delhi	24
17.	Jammu University, Jammu and Kashmir	23
18.	Jawaharlal Nehru University, New Delhi	24
19.	Karnatak University, Dharwad, Karnataka	24
20.	Kurukshetra University, Kurukshetra, Haryana	24
21.	Madurai Kamraj University, Madurai, Tamil Nadu	25
22.	Mangalore University, Mangalore, Karnataka	25
23.	Manipur University, Imphal, Manipur	24
24.	Mahatma Gandhi University, Kottayam, Kerala	24
25.	Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, Maharashtra	23
26.	North Eastern Hill University, Shillong, Meghalaya	25
27.	Osmania University, Hyderabad, Andhra Pradesh	25
28.	Pondicherry University, Puducherry	25
29.	Pt. Ravishankar Shukla University, Raipur, Chhattisgarh	25
30.	Panjab University, Chandigarh, Punjab	25
31.	Punjabi University, Patiala, Punjab	24

32.	Sardar Patel University, Vallabh Vidyanagar, Gujarat	24
33.	Shivaji University, Kolhapur, Maharashtra	25
34.	Tezpur University, Tezpur, Assam	25
35.	Thapar University, Patiala, Punjab	22
36.	The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat	25
37.	University of Allahabad, Allahabad, Uttar Pradesh	24
38.	University of Calicut, Kozhikode, Kerala	23
39.	University of Delhi, Delhi	25
40.	University of Hyderabad, Hyderabad, Andhra Pradesh	24
41.	University of Kashmir, Srinagar, Jammu and Kashmir	25
42.	University of Kerala, Thiruvanathapuram, Kerala	24
43.	University of Madras, Chennai, Tamil Nadu	25
44.	University of Mumbai, Mumbai, Maharashtra	24
45.	University of Mysore, Mysore, Karnataka	25
46.	University of North Bengal, Darjeeling, West Bengal	24
47.	Savitribai Phule Pune University, Pune, Maharashtra	25
48.	University of Rajasthan, Jaipur, Rajasthan	25
49.	Jiwaji University, Gwalior, Madhya Pradesh	22
50.	Kuvempu University, Shankaraghatta, Karnataka	23
51.	Sant Gadge Baba Amravati University, Amravati, Maharashtra	17
52.	Rajiv Gandhi University, Itanagar, Arunachal Pradesh	20
53.	Annamalai University, Annamalai Nagar, Tamil Nadu	19
54.	Assam University, Silchar, Assam	22
55.	Awadhesh Pratap Singh University, Rewa, Madhya Pradesh	8
56.	Banasthali University, Banasthali, Rajasthan	18
57.	Berhampur University, Berhampur, Odisha	12
58.	Bharathiar University, Coimbatore, Tamil Nadu	18
59.	Bharathidasan University, Tiruchirapall, Tamil Nadu	18
60.	Maharaja Krishnakumarsinhji Bhavnagar University, Gaurishanker Lake Road, Bhavnagar, Gujarat	18
61.	Birla Institute of Technology, Ranchi, Jharkhand	18
62.	Bundelkhand University, Jhansi, Uttar Pradesh	18
63.	Chaudhary Charan Singh University, Meerut, Uttar Pradesh	16
64.	Chhatrapati Shahu Ji Maharaj Kanpur University, Kanpur, Uttar Pradesh	14
65.	Dayalbagh Educational Institute, Agra, Uttar Pradesh	17
66.	Dibrugarh University, Dibrugarh, Assam	22
67.	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra	19
68.	Dr. Ram Manohar Lohia Avadh University, Faizabad, Uttar Pradesh	7

69.	Gujarat University, Ahmedabad, Gujarat	16
70.	Gulbarga University, Gulabarga, Karnataka	18
71.	Guru Jambheshwar University of Science & Technology, Hisar, Haryana	17
72.	Gurukula Kangri Vishwavidyalaya, Haridwar, Uttarakhand	15
73.	Hemchandracharya North Gujarat University, Patan, Gujarat	18
74.	Hemwati Nandan Bahuguna Garhwal University, Srinagar, Uttarakhand	12
75.	Himachal Pradesh University, Shimla, Himachal Pradesh	19
76.	Guru Gobind Singh Indraprastha University, Delhi	18
77.	Jawaharlal Nehru Technological University, Hyderabad, Andhra Pradesh	16
78.	Kakatiya University, Warangal, Telangana	16
79.	Kalyani University, Kalyani, West Bengal	18
80.	Kumaun University, Nainital, Uttarakhand	14
81.	Maharshi Dayanand University, Rohtak, Haryana	17
82.	Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu	18
83.	Mohanlal Sukhadia University, Udaipur, Rajasthan	18
84.	Nagaland University, Kohima, Nagaland	22
85.	Acharya Nagarjuna University, Nagarjunanagar, Andhra Pradesh	16
86.	North Maharashtra University, Jalgaon, Maharashtra	17
87.	Rani Durgavati Vishwavidyalaya, Abalpur, Madhya Pradesh	13
88.	Sambalpur University, Sambalpur, Odisha	19
89.	Saurashtra University, Rajkot, Gujarat	20
90.	Veer Narmad South Gujarat University, Surat, Gujarat	18
91.	Sri Sathya Sai Institute of Higher Learning, Anantapur, Andhra Pradesh	17
92.	Sri Venkateswara University, Tirupati, Andhra Pradesh	19
93.	Tripura University, Agartala, Tripura	22
94.	University of Burdwan, Burdwan, West Bengal	19
95.	University of Lucknow, Lucknow, Uttar Pradesh	19
96.	Utkal University, Bhubaneswar, Odisha	18
97.	Vidyasagar University, Midnapore, West Bengal	18
98.	Visva-Bharati, Birbhum, West Bengal	19
99.	Alagappa University, Sivanganga, Tamil Nadu	14
100.	Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh	14
101.	Bharati Vidyapeeth, Pune, Maharashtra	8
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106.	Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, Uttar Pradesh	5

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140.	Tamil University, Thanjavur, Tamil Nadu	4
141.	Tilak Maharashtra University, Pune, Maharashtra	4

142.	Tata Institute of Social Sciences, Mumbai, Maharashtra	11
143.	VBS Purvanchal University, Jaunpur, Uttar Pradesh	4
144.	Vikram University, Ujjain, Madhya Pradesh	6
145.	Kannur University, Kannur, Kerala	6
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147.	Yashwantrao Chavan Maharashtra Open University, Nashik, Maharashtra	4
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153.	Institute of Chemical Technology, Mumbai, Maharashtra	9
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156.	Central University of Rajasthan, Ajmer, Rajasthan	16
157.	Central University of Bihar, Patna, Bihar	16
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159.	Central University of Kerala, Kasaragod, Kerala	14
160.	Central University of Punjab, Bhatinda, Punjab	19
161.	West Bengal University of Technology, Saltlake, West Bengal	7
162.	Central University of Tamil Nadu, Tiruvarur, Tamil Nadu	16
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164.	Central University of Haryana, Mahendergarh, Haryana	14
165.	Deenbandhu Chhotu Ram University of Science & Technology, Sonepat, Haryana	9
166.	Gitam University, Visakhapatnam, Andhra Pradesh	12
167.	Shri Mata Vaishno Devi University, Jammu and Kashmir	11
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169.	Dharmasinh Desai University, Nadiad, Gujarat	8
170.	Doon University, Dehradun, Uttarakhand	8
171.	Bhagat Phool Singh Mahila Vishwavidyalaya, Sonepat, Haryana	11
172.	Ravenshaw University, Cuttack, Odisha	8
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174.	Davangere University, Davangere, Karnataka	8
175.	Chaudhary Devi Lal University, Sirsa, Haryana	8
176.	Central University of Orissa, Koraput, Odisha	14
177.	Karnataka State Women's University, Bijapur, Karnataka	7
178.	Tumkur University, Tumkur, Karnataka	8
179.	Baba Ghulam Shah Badshah University, Rajouri, Jammu and Kashmir	7

180.	Presidency University, Kolkata, West Bengal	10
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183.	Ambedkar University, Delhi, Lothian Road, New Delhi	8
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192.	South Asian University, Chanakyapuri, New Delhi	7
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204.	National Law Institute University, Bhopal, Madhya Pradesh	4
205.	Gujarat National Law University, Gandhinagar, Gujarat	4
206.	The WB National University of Juridical Sciences, Kolkata, West Bengal	4
207.	Hidayatullah National Law University, Raipur, Chhattisgarh	4
208.	Dr. Ram Manohar Lohiya National Law University, Lucknow, Uttar Pradesh	4
209.	National University of Advanced Legal Studies, Kochi, Kerala	4
210.	Tamil Nadu Dr. Ambedkar Law University, Chennai, Tamil Nadu	4
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10	Institute of Physics	http://iopscience.iop.org/	46	121	I & II
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25	RSC Dartabases(6)	http://www.rsc.org/		110	I & II
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28	Manupatra	http://www.manupatra.com/		18	
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3	The IIS University, Jaipur, Rajasthan	16th April 2014
4	Alagappa University, Karaikudi, Tamil Nadu	22nd April 2014
5	Kalasalingam University, Krishnankoil, Tamil Nadu	6th June 2014
6	Koneru Lakshmaiah Education Foundation, Vaddeswaram, Andhra Pradesh	9th June 2014
7	Maharshi Dayanand Saraswati University, Ajmer, Rajasthan	10th June 2014
8	University of Delhi, Delhi	18th June 2014
9	D. Y. Patil University, Kolhapur, Maharashtra	2nd July 2014
10	Indraprastha Institute of Information Technology Delhi, New Delhi	10th July 2014
11	Swami Vivekanand Subharti University, Meerut, Uttar Pradesh	17th July 2014
12	VIT University, Vellore, Tamil Nadu	1st August 2014
13	Birla Institute of Technology & Science, Pilani, Rajasthan	8th August 2014
14	Chitkara University, Solan, Himachal Pradesh	8th September 2014
15	IFTM University, Moradabad, Uttar Pradesh	8th September 2014
16	Guru Jambheshwar University of Science & Technology, Hisar, Haryana	1st October 2014
17	Rajiv Gandhi University, Doimukh, Arunachal Pradesh	17th October 2014
18	Y.M.C.A. University of Science and Technology, Faridabad, Haryana	29th October 2014
19	Punjabi University, Patiala, Punjab	3rd November 2014
20	Annamalai University, Chidambaram, Tamil Nadu	11th November 2014
21	ITM University, Gwalior, Madhya Pradesh	20th November 2014
22	Jamia Millia Islamia, New Delhi	3rd December 2014
23	Central University of Karnataka, Gulbarga, Karnataka	9th December 2014
24	Homi Bhabha National Institute, Mumbai, Maharashtra	5th January 2015
25	Vivekananda Global University, Jaipur, Rajasthan	5th January 2015
26	Baddi University of Emerging Sciences & Technology, Solan, Himachal Pradesh	5th January 2015

27	Sumandeep Vidhyapeeth, Vadodara, Gujarat	5th January 2015
28	University of Mumbai, Mumbai, Maharashtra	28th January 2015
29	Central University of Haryana, Mahendergarh, Haryana	28th January 2015
30	Veer Narmad South Gujarat University, Surat, Gujarat	28th January 2015
31	Yashwantrao Chavan Maharashtra Open University, Nashik, Maharashtra	28th January 2015
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36	Dravidian University, Kuppam, Andhra Pradesh	24th February 2015
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4	Bhagwant University, Ajmer, Rajasthan	47
5	Bharath University, Chennai, Tamil Nadu	20
6	Bhupendra Narayan Mandal University, Madhepura, Bihar	2
7	Chaudhary Sarwan Kumar Himachal Pradesh Krishi Vishvavidyalaya, Palampur, Himachal Pradesh	64
8	Dibrugarh University, Dibrugarh, Assam	18
9	Forest Research Institute University, Dehradun, Uttarakhand	35
10	Gujarat Ayurved University, Jamnagar, Gujarat	5
11	Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab	5
12	Gurukul Kangri Vishwavidyalaya, Haridwar, Uttarakhand	2
13	ICFAI Foundation for Higher Education, Hyderabad, Andhra Pradesh	23
14	Indian Institute of Foreign Trade , New Delhi	10
15	Indian School of Mines University, Dhanbad, Jharkhand	42
16	International Institute of Information Technology, Bengaluru, Karnataka	3
17	Janardan Rai Nagar Rajasthan Vidyapeeth, Udaipur, Rajasthan	1
18	Jadavpur University, Kolkata, West Bengal	3
19	Jai Narain Vyas University, Jodhpur, Rajasthan	2
20	Jai Prakash Vishwavidyalaya, Chapra, Bihar	1
21	Kadi Sarva Vishwavidyalaya, Kadi, Gujarat	45
22	Karnataka Veterinary, Animal and Fisheries Sciences University, Nandi Nagar, Karnataka	102
23	Karunya University, Coimbatore, Tamil Nadu	70
24	KLE University , Belagavi, Karnataka	30
25	Kurukshetra University, Kurukshetra, Haryana	186

26	Lakshmibai National University of Physical Education, Gwalior, Madhya Pradesh	102
27	Lingayas University, Faridabad, Haryana	1
28	Madhya Pradesh Bhoj Open University, Bhopal, Madhya Pradesh	1
29	Magadh University, Bodh Gaya, Bihar	2
30	Maharashtra Animal and Fishery Sciences University , Nagpur, Maharashtra	7
31	Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya, Satna, Madhya Pradesh	1
32	Manav Rachna International University , Faridabad, Haryana	19
33	MATS University , Raipur, Chhattisgarh	3
34	Netaji Subhas Open University, Kolkata, West Bengal	1
35	North Eastern Regional Institute of Science & Technology, Itanagar, Arunachal Pradesh	2
36	Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, Madhya Pradesh	1
37	Panjab University, Chandigarh, Punjab	11
38	Patna University, Patna, Bihar	3
39	Punjab Technical University, Kapurthala, Punjab	33
40	Rani Durgavati Vishwavidyalaya, Jabalpur, Madhya Pradesh	1
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44	Saurashtra University, Rajkot, Gujarat	339
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53	University of Calcutta, Kolkata, West Bengal	1
54	University of Jammu, Jammu & Kashmir	2

55	University of Madras, Chennai, Tamil Nadu	1
56	Utkal University, Bhubaneswar, Orissa	2
57	V O Chidambaram College of Education, Thoothukudi, Tamil Nadu	1
58	Vidyasagar University, Midnapore, West Bengal	1
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7	Bharathidasan University, Tiruchirappalli, Tamil Nadu	21,50,000
8	Sri Krishnadevaraya University, Anantapur, Andhra Pradesh	15,00,000
9	Calicut University, Thenhipalam, Kerala	17,94,000
10	Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh	14,20,000
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14	Manipur University, Imphal, Manipur	14,30,000
15	Periyar University, Salem, Tamil Nadu	10,06,000
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17	Kannur University, Kannur, Kerala	8,61,000
18	Karnatak University, Dharward, Karnataka	20,36,750
19	Tilak Maharashtra Vidyapeeth, Pune, Maharashtra	8,71,000
20	Gauhati University, Guwahati, Assam	19,20,200
21	Institute of Chemical Technology, Mumbai, Maharashtra	13,40,000
22	Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu	17,75,600
23	Guru Gobind Singh Indraprastha University, New Delhi	1,00,000
24	University of North Bengal, Darjeeling, West Bengal	14,37,200
25	V.B.S Purvanchal University, Jaunpur, Uttar Pradesh	25,85,000
26	Bundelkhand University, Jhansi, Uttar Pradesh	17,84,400
27	University of Pune, Pune, Maharashtra	23,89,550
28	The Tamil Nadu Dr. Ambedkar Law University, Chennai, Tamil Nadu*	0
29	Jawaharlal Nehru Technological University, Hyderabad, Andhra	15,36,000

	Pradesh	
30	Shivaji University, Kolhapur, Maharashtra	19,26,650
31	Central University of Rajasthan, Ajmer, Rajasthan*	0
32	Central University of Gujarat, Gandhinagar, Gujarat*	0
33	The WB National University of Juridical Sciences, Kolkata, West Bengal*	0
34	Pt. Ravishanker Shukla University, Raipur, Chhattisgarh	20,30,000
35	Jawaharlal Nehru University, New Delhi	27,50,000
36	Maharshi Dayanand University, Rohtak, Haryana	20,66,150
37	Sambalpur University, Sambalpur, Odisha	16,22,950
38	Kumaun University, Nainital, Uttarakhand	20,00,000
39	Sikkim University, Gangtok, Sikkim*	0
40	Mohanlal Sukhadia University, Udaipur, Rajasthan	19,39,400
41	Bharathiar University, Coimbatore, Tamil Nadu	20,72,300
42	Gujarat University, Ahmedabad, Gujarat	20,46,950
43	University of Mysore, Mysore, Karnataka	22,10,000
44	University of Kerala, Thiruvananthapuram, Kerala	21,50,000
45	Central University of Himachal Pradesh, Dharamshala, Himachal Pradesh*	0
46	Goa University, Goa, Goa	12,26,000
47	Karnataka State Women's University, Bijapur, Karnataka*	0
48	M. S. University of Baroda, Vadodara, Gujarat	20,53,700
49	Sree Sankara University of Sanskrit, Kalady, Kerala	8,18,000
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58	Himachal Pradesh University, Shimla, Himachal Pradesh	18,73,700
59	Jamia Hamdard University, New Delhi*	12,54,500

60	Sardar Patel University, Vallabh Vidyanagar, Gujarat	19,55,000
61	Anna University, Chennai, Tamil Nadu	18,95,000
62	Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra	14,000
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68	Aligarh Muslim University, Aligarh, Uttar Pradesh	27,00,500
69	Gulbarga University, Gulbarga, Karnataka	22,25,000
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Information and Library Network Centre
(An Autonomous Inter-University centre of UGC)
Infocity, Gandhinagar - 382 007

CONSOLIDATED BALANCE SHEET AS AT 31st MARCH, 2015

(Amount - Rs.)

	F.Y. 2014-2015 (Current Year)			F.Y. 2013-2014 (Previous Year)			F.Y. 2014-2015 (Current Year)	F.Y. 2013-2014 (Previous Year)
CORPUS/CAPITAL FUND AND LIABILITIES	INFLIBNET Centre	N-LIST	E-Content	INFLIBNET Centre	N-LIST	E-Content		
CORPUS/CAPITAL FUND	2721,39,645.65	73,34,485.00	989,76,059.00	3444,19,374.97	781,35,175.00	1059,17,091.73	3784,50,189.65	5284,71,641.70
RESERVES AND SURPLUS	4191,30,808.21	15,76,565.00	63,947.54	3213,55,989.57	13,57,690.00	31,973.77	4207,71,320.75	3227,45,653.34
EARMARKED/ENDOWMENT FUNDS	7651,50,289.88	0.00	0.00	21296,93,964.88	0.00	0.00	7651,50,289.88	21296,93,964.88
SECURED LOANS AND BORROWINGS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UNSECURED LOANS AND BORROWINGS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEFERRED CREDIT LIABILITIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CURRENT LIABILITIES AND PROVISIONS	447,58,430.90	29,38,731.00	37,02,181.50	488,95,644.50	33,18,537.00	28,03,752.50	513,99,343.40	550,17,934.00
TOTAL :	15011,79,174.64	118,49,781.00	1027,42,188.04	28443,64,973.92	828,11,402.00	1087,52,818.00	16157,71,143.68	30359,29,193.92
ASSETS								
FIXED ASSETS	5393,24,364.52	15,76,568.00	75,331.00	5106,16,845.52	15,76,568.00	75,331.00	5409,76,263.52	5122,68,744.52
INVESTMENTS-FROM EARMARKED/ENDOWEMENT FUNDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INVESTMENTS-OTHERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CURRENT ASSETS, LOANS, ADVANCES ETC.	9618,54,810.12	102,73,213.00	1026,66,857.94	23337,48,128.40	812,34,834.00	1086,77,487.00	10747,94,881.06	25236,60,449.40
MISCELLANEOUS EXPENDITURE (to the extent not written off or adjusted)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL :	15011,79,174.64	118,49,781.00	1027,42,188.94	28443,64,973.92	828,11,402.00	1087,52,818.00	16157,71,144.58	30359,29,193.92

As per our report of even date attached.
For Deepak Jayantilal Shah & Co.
Chartered Accountants

The above Balance Sheet to the best of our
belief contains a true account of the Funds
and Liabilities and Properties & Assets of
the Institution.

[Deepak J. Shah]
Proprietor
FRN : 113625W
MEM. NO. : 14364

Place : Gandhinagar
Date : 22.09.2015

Sd/-

[Harish Chandra]
Admn. Officer-PA&F

Director

Place : Gandhinagar
Date : 22.09.2015

Information and Library Network Centre
(An Autonomous Inter-University centre of UGC)
Infocity, Gandhinagar - 382 007

CONSOLIDATED INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31st MARCH, 2015

(Amount – Rs.)

	F.Y. 2014-2015 (Current Year)			F.Y. 2013-2014 (Previous Year)			F.Y. 2014-2015 (Current Year)	F.Y. 2013-2014 (Previous Year)
	INFLIBNET Centre	N-LIST	E-Content	INFLIBNET Centre	N-LIST	E-Content		
INCOME								
INCOME FROM SALES / SERVICES	83,47,535.32	0.00	0.00	63,26,574.00	0.00	0.00	83,47,535.32	63,26,574.00
GRANTS/SUBSIDIES	441,00,000.00	0.00	0.00	375,20,000.00	0.00	0.00	441,00,000.00	375,20,000.00
FEES / SUBSCRIPTIONS	4,10,865.00	82,45,959.00	0.00	4,44,180.00	60,49,975.00	0.00	86,56,824.00	64,94,155.00
INCOME FROM INVESTMENTS (INCOME ON INVEST. FROM EARMARKED/ ENDOW. FUNDS TRANSFERRED TO FUNDS)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INCOME FROM ROYALTY, PUBLICATION ETC.	0.00	0.00	1,58,896.00	0.00	0.00	4,84,800.00	1,58,896.00	4,84,800.00
INTEREST EARNED	177,49,481.00	21,21,957.00	25,87,954.00	106,85,907.00	46,42,772.00	65,44,942.00	224,59,392.00	218,73,621.00
OTHER INCOME	19,808.00	0.00	0.00	98,660.05	0.00	0.00	19,808.00	98,660.05
INCREASE/ (DECREASE) IN STOCK OF FINISHED GOODS AS WORKS-IN-PROGRESS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL (A) :	706,27,689.32	103,67,916.00	27,46,850.00	550,75,321.05	106,92,747.00	70,29,742.00	837,42,455.32	727,97,810.05
EXPENDITURE								
ESTABLISHMENT EXPENSES	260,59,350.00	6,14,693.00	10,10,144.00	235,25,431.00	9,41,420.00	8,52,240.00	276,84,187.00	253,19,091.00
OTHER ADMINISTRATIVE EXPENSES ETC.	240,73,250.00	803,35,038.00	86,45,764.06	208,32,971.52	1412,38,574.00	57,80,428.50	1130,54,052.06	1678,51,974.02
EXPENDITURE ON GRANTS, SUBSIDIES ETC.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPRECIATION (NET TOTAL AT THE YEAR-END-CORRESPONDING TO SCHEDULE 8)	448,28,263.41	2,18,875.00	31,973.77	15,34,194.53	2,36,284.70	25,107.82	450,79,112.18	17,95,587.05
TOTAL (B) :	949,60,863.41	811,68,606.00	96,87,881.83	458,92,597.05	1424,16,278.70	66,57,776.32	1858,17,351.24	1949,66,652.07
BALANCE BEING EXCESS OF INCOME OVER EXPENDITURE(A-B)	(243,33,174.09)	(708,00,690.00)	(69,41,031.83)	91,82,724.00	1317,23,531.70	3,71,965.68	(1020,74,895.92)	(1221,68,842.02)
DEPRECIATION FOR PRIOR PERIOD	(479,46,555.23)	-	-	(452,86,792.00)	11,21,405.30	6,865.95	-	-
TRANSFER TO SPECIAL RESERVE (SPECIFY EACH)	-	-	-	-	-	-	-	-
TRANSFER TO / FROM GENERAL RESERVE	-	-	-	-	-	-	-	-
BALANCE BEING SURPLUS/(DEFICIT) CARRIED TO CORPUS/CAPITAL FUNDS	706,27,689.32	103,67,916.00	27,46,850.00	550,75,321.05	106,92,747.00	70,29,742.00	837,42,455.32	727,97,810.05

As per our report of even date attached.
For Deepak Jayantilal Shah & Co.
Chartered Accountants

[Deepak J. Shah]
Proprietor
FRN : 113625W
MEM. NO. : 14364
Place : Gandhinagar
Date : 22.09.2015

[Harish Chandra]
Admn. Officer-PA&F

Sd/-

Director

Place : Gandhinagar
Date : 22.09.2015

DEEPAK JAYANTILAL SHAH & CO.
CHARTERED ACCOUNTANTS

T-12/A, Vikram Chambers
Ashram Road, Ahmedabad-380 00
Telephone No.:079 -27546279

SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2015

(Amount-Rs.)

SCHEDULE – 3 EARMARKED FUNDS	UGC-INFONET Grants-in-Aids	E-Subscription Grants-in-Aids	E-Subscription College	North Eastern Region	Excess Amt. of Asso. Mem.	UGC Website Maintenance	UGC Grants for Shodhganga	Internet Conn. at UGC	CUG Project	Integrated E-Content Porta	Vidhwan Expert Database	TOTALS F.Y. 2014-2015 (Current Year)	F.Y. 2013-2014 (Previous Year)
a) Opening balance of the funds	50,14,497.00	19047,18,619.38	2000,00,000.00	4,853.00	47,69,706.50	1,08,550.00	100,77,739.00	0.00	0.00	0.00	0.00	21246,93,964.88	13971,66,683.50
b) Additions to the Funds:													
i. Donation/grants	0.00	5194,56,56,000.00	0.00	293,00,000.00	0.00	0.00	0.00	37,482.00	11,39,778.00	32,00,000.00	15,81,000.00	5547,14,260.00	18500,00,000.00
ii. Income from Investments made on account of funds	0.00	998,41,419.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,69,870.00	82,280.00	1000,93,569.00	628,37,552.00
iii. To be recovered from UGC	0.00	0.00	0.00	0.00	0.00	16,13,806.00	0.00	35,26,355.00	0.00	0.00	0.00	51,40,161.00	24,99,057.00
TOTAL (a+b)	50,14,497.00	25240,16,038.38	2000,00,000.00	293,04,853.00	47,69,706.50	17,22,356.00	100,77,739.00	35,63,837.00	11,39,778.00	33,69,870.00	16,63,280.00	27846,41,954.88	33125,03,292.50
c) Utilisation/Expenditure towards objectives of funds													
i. Capital Expenditure													
- Fixed Assets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,45,725.00	3,11,252.00	5,56,977.00	0.00
- Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total													
ii. Revenue Expenditure													
- Salaries, Wages and allowances	0.00	3,26,201.00	0.00	0.00	0.00	13,81,141.00	9,35,260.00	4,89,007.00	2,92,668.00	5,01,011.00	5,69,996.00	44,95,284.00	21,80,017.00
- Legal & Professional Fees	0.00	2,41,787.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,41,787.00	2,82,586.00
- Other Administrative Exps.	0.00	18717,67,288.00	1366,08,785.00	0.00	16,132.00	3,41,215.00	22,15,232.00	30,74,830.00	1,13,855.00	51,080.00	9,200.00	20141,97,617.00	11803,46,724.62
Total	0.00	18723,35,276.00	1366,08,785.00	0.00	16,132.00	17,22,356.00	31,50,492.00	35,63,837.00	4,06,523.00	7,97,816.00	8,90,448.00	20194,91,665.00	11828,09,327.62
TOTAL (c)	0.00	18723,35,276.00	1366,08,785.00	0.00	16,132.00	17,22,356.00	31,50,492.00	35,63,837.00	4,06,523.00	7,97,816.00	8,90,448.00	20194,91,665.00	11828,09,327.62
TOTAL (a+b-c)	50,14,497.00	6516,80,762.38	633,91,215.00	293,04,853.00	47,53,574.50	0.00	69,27,247.00	0.00	7,33,255.00	25,72,054.00	7,72,832.00	7651,50,289.88	21296,93,964.88

Finance and Accounts

Some of the financial expenditure reflecting INFLIBNET activities over the last three years are given below. The Audited Accounts of the Financial Year 2014-2015 are given on the following pages.

(Rupees in Lakhs)

	2012-2013	2013-2014	2014-2015
Expenditures			
Capital	9.04	20.14	88.50
Operational/Administrative	434.25	436.32	484.41
Training Courses & Conference	13.18	4.26	12.95
Networking	3.59	3.00	3.96
UGC-INFONET	161.01	2.47	-
E-SUBSCRIPTION	3,538.25	11,728.27	18,723.35
Shodhganga (ETD)	8.05	64.99	31.50
E-Content (e-Pg Pathshala)	51.71	66.65	64.87
Grants in Aid received from UGC			
Plan	-	1,036.50	-
Non-Plan	596.31	375.20	441.00
UGC-Infonet	-	-	-
E-Subscription	14,500.00	18,500.00	5,194.56
Shodhganga (ETD)	173.82	-	-
E-Content (e-Pg Pathshala)	-	-	-