



Annual Report

April 1, 2013 to March 31, 2014



Information and Library Network Centre, Gandhinagar
(An IUC of University Grants Commission)

INFLIBNET Centre

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(April 1, 2013 – March 31, 2014)



Information and Library Network Centre

Gandhinagar

2014

From the Director's Desk

Dr. Jagdish Arora **Director**



I am pleased to present Annual Report of the Information and Library Network (INFLIBNET) Centre, April 1, 2013 to March 31, 2014 to the academic community in India. The INFLIBNET Centre moved to its new premises in the first week of February 2013. Settling down into the new campus of Centre at Infocity, Gandhinagar was troubled and trying time for staff and scientists of the Centre. When we moved into the campus in the last week of January 2013, the Centre did not even have basic amenities like telephones, Fax and Internet connectivity. Even electrical outlets for computers and other devices were limited. However, thanks to the consistent perseverance of our scientists and cooperation of concerned agencies, we have finally come out of testing times and have settled down to take up the serious business of serving the academic community in India.

The Institutional building of the Centre is a beautiful edifice, 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 consists of three blocks, namely Academic, Administrative and Residential Blocks. The Administrative Block of the building consists of Offices for Accounts & Finance, Administration & Personnel, Purchase & Stores, Director's Office, Board Room, Meeting Room, Library, Cyber Zone and Laboratories and offices of scientists and associated staff. The Academic Block of the building consists of auditorium and training laboratories. The Residential Block of the building consists of guest's rooms, cafeteria and residential quarters for scientists and Director's residence. All the three blocks of the building are complete in all respect, well-furnished and well-equipped with latest IT infrastructure.

The entire year kept us busy in putting in place the infrastructural facilities in the new building. M/s Godrej who was awarded the contract for furnishing the Administrative and Academic Blocks of the building completed their contractual obligations. The contract for computer networking, electronic surveillance, CCTV, Public Address System, video conferencing, telephony, Building Management System, etc. awarded to Siemens, has also been completed. The Residential Block of the building, handed over to the Centre in January 2014, is being furnished.

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

infrastructural facilities, the Centre has gone full throttle in this direction. During the year under report, a total number of 25 events were organized including ten training programmes on SOUL Installation and Operations. 4 INFLIBNET Regional Training Programme on Library Automation (IRTPLA) were organized in various colleges and universities. Six User Awareness Programmes on Shodhganga including one advanced level programme at INFLIBNET Centre were organized in various universities that are signatory to MoU on Shodhganga. A User Awareness Programme on e-resources subscribed under the N-LIST was organized in Gitam University, Visakhapatnam. In addition, three specialized training programmes on Setting-up of Institutional Repository using DSpace, Optimizing the Potential and Impact in Research Publishing and were organized at INFLIBNET Centre, Gandhinagar. Moreover, the Centre has planned two training programmes/workshops every month from 2014 onwards.

In addition to the training programmes and workshops mentioned above, the Centre collaborated with JSTOR to organize three "JSTOR User Forum" during October 2013, one each at INFLIBNET Centre, Gandhinagar, IIT Madras and TISS, Mumbai. Mr. John Lenahan, Associate Vice President, JSTOR came to represent JSTOR from US. Experts from Mumbai and Calicut were invited to deliver talks in the JSTOR Forum. All the three Forums were highly successful and there were demands from other universities to organize the Forum in their respective universities. The Centre also collaborated with the Elsevier Science to organize 4th UGC-Infonet University Forum on 5th August, 2013 in New Delhi. The forum served as a platform to interact with the user community of Science Direct of UGC-Infonet Digital Library Consortium with Elsevier Science as well as with the INFLIBNET Centre.

The Centre also participated in the launch of new version of JCCC @ INFLIBNET called "Jgate@UDLC" during the meeting of the representative of the university libraries designated as ILL Centres organised in Bangalore on 27th September, 2013. The new platform, having several new features and functionalities, enable each and every beneficiary university to create their own accounts in the Jgate@UDLC and participate in the process of document delivery. Moreover, Jgate@UDLC would also serve as a federated search service for participating library as soon as the university library configures JCCC for their use.

The highlight of the year was visit of the Review Committee, constituted by the UGC to review the performance of Inter-university Centres of the UGC, under the Chairmanship of Prof. Goverdhan Mehta. The team consisting of eminent and distinguished academicians included of Prof. Goverdhan Mehta, National Research Professor, School of Chemistry, University of Hyderabad, Prof. M. M. Sharma, former Director, UDCT, Prof. M Anandakrishnan, Chairman, Indian Institute of Technology, Kanpur, Prof. Surabhi Banerjee, Vice-Chancellor, Central University of Orissa, Prof. S. Parasuraman, Director, Tata Institute of Social Science, Bombay, Prof. M Durga Prasad, Professor, Theoretical Chemistry, School of Chemistry, University of Hyderabad and Dr. (Mrs.) Renu Batra, Jt. Secretary (IUC/MC) University Grants Commission, visited the Centre on 13th July, 2013. The Members of the Committee interacted with the Director, Scientists and other stakeholders on presentations made

by the Centre. The members of the Review Committee were appreciative of activities and services of the Centre and made several constructive suggestions for improving its services.

Notable progress was made under all open access initiatives launched by the Centre during XI Plan Period. Shodhganga, one of the most important open access initiatives of the Centre, developed and managed by the INFLIBNET Centre, grew both in terms of number of theses deposited in it as well as number of universities who signed MoU with the INFLIBNET Centre. As on 31st March, 2014, 172 universities have started submitting their theses into the repository and a total number of 163 universities have signed MoU with INFLIBNET Centre on Shodhganga including 52 universities who signed the MoU during the financial year under report. The total number of theses in the repository grew to 15,000. Moreover, 36 universities that are signatory to MoU with INFLIBNET Centre on Shodhganga, have received funds from UGC as incentive for joining this initiative. In addition, recommendations for release of funds for 42 universities signatory of MoU with INFLIBNET Centre is awaiting release of funds from UGC. These universities can now digitize backlists of their theses, set-up ETD laboratory and get access to anti-plagiarism detection software through INFLIBNET Centre. Centre has provided access to two plagiarism detection software, i.e. Turnitin and iThenticate to 90 universities under Shodhganga. Significant progress has also been made in all other open access initiatives namely Shodhgangotri, OJAS, IR @ INFLIBNET and InfoPort.

The activities of content creation continued with greater vigour and fervour 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. Out of 73, 63 Principal Investigators (PIs) of different subjects have been identified / appointed / nominated. 700 modules uploaded at e-Pathshala website. 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 was able to complete all modules in the following four papers in Library and Information Science during the year under report:

- i) Digital Library (30 modules; Paper Coordinator: Dr. Jagdish Arora)
- ii) Public Library (35 modules; Paper Coordinator: Prof. C P Vashishth)
- iii) Social Science Information System (15 modules; Paper Coordinator: Dr. P. R. Goswami)
- iv) Scientometrics & Bibliometrics (19 modules; Paper Coordinator, Prof. I. K. Ravichandra Rao)

The Centre plans to complete the work of content creation for all 16 papers in Library and Information Science by August 31, 2014. All content developed under the e-PG-Pathshala Programme are available in open access at epgp.inflibnet.ac.in.

Two projects entitled "Integrated e-Content Portal" and "Vidwan" submitted for financial assistance to the National Mission on Education through Information and Communication Technology (NME-ICT) were approved during the year. The project on "Integrated e-Content Portal" proposes to host all content created under the NME-ICT on a long-term basis beyond the active period of NME-ICT. Project on "Vidwan: an Expert Database" proposes to develop a database of experts working in universities and research institutions in India. The interface for Vidwan was completely re-designed to provide better search, browse and navigational experience to users. Several new features and functionalities were added to the database and its interface. The number of records available in Vidwan as on 31st March, 2014 has grown to 11,954.

The first quarter of the new year and the last quarter of financial year started on a positive note for the INFLIBNET Centre. It is indeed a matter of great pleasure for me to inform restoration of UGC-Infonet Digital Library Consortium that was earlier dropped by the UGC for XII Plan Period because of paucity of funds. With concerted efforts by the INFLIBNET Centre, universities and the UGC, the UGC-Infonet Digital Library Consortium was not only restored for XII Plan Period but N-LIST project which was earlier funded by the MHRD under its National Mission on Education through Information and Communication Technology (NME-ICT) was also subsumed into the UGC-Infonet Digital Library Consortium as its college component. As such, NLIST that started as a project of the NME-ICT, graduated to become a regular scheme of the UGC. I am pleased to inform UGC has not only allocated adequate funds for continuation of UGC-Infonet Digital Library Consortium but sufficient funds have also been allocated to sustain all activities under the N-LIST programme. Both consortia initiatives did very well during the year in terms of increase in number of members and usage. No. of core members (universities) for the UGC-INFONET Digital Library Consortium grew to 208 universities including 14 national law schools / universities and 5 IUCs of the UGC, and 204 private universities and other institutions joined as Associate Membership Programme of the Consortium to get access to e-resources subscribed under it. The overall usage of e-resources available under the consortium increased by 25% in case of e-journals and 14.55% in case of bibliographic databases. Number of colleges who joined NLIST programme grew to 3,336 as on March 31, 2014 with 5,73,955 registered users who were given Login IDs and passwords including faculty, staff and students from member colleges.

I am happy to inform that the Centre is given a monthly slot by A View (Amrita Virtual Interactive e Learning World) to address its users on services and activities provided by us and resolve problems and issues that the users of our services may have. The Centre has started reaching out to its user community through Virtual Classroom using A-View video conferencing software developed by Amrita University. The programmes delivered on A View are being received very well by the user community.



(Jagdish Arora)

INFLIBNET Centre, Gandhinagar

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1. Introduction

The Information and Library Network (INFLIBNET) Centre is an autonomous Inter-University Centre (IUC) of the University Grants Commission (UGC) located at the Infocity, Gandhinagar. Major activities and services of the Centre are geared towards modernization of academic libraries and information centres, to promote information transfer and access, to 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, on behalf of the UGC, has taken-up a number of initiatives for the benefit of the academic community. These initiatives include i) UGC-Infonet Digital Library Consortium that extends access to selected scholarly electronic journals and databases to the universities in different disciplines; ii) Shodhganga: A Reservoir of Indian Electronic Theses and Dissertations, that enables online submission of theses and dissertations by research scholars in digital repository set-up at the INFLIBNET Centre; iii) Shodhgangotri that enables research scholars to submit approved synopsis of research proposal submitted to the university; iv) Open Journals Access System (OJAS) that facilitates faculty and researchers in Indian universities to launch their open access journals on OJAS platform offered by INFLIBNET Centre; v) Access management technologies that would facilitate users to access e-resources irrespective of their physical location. Besides, the Centre through a project entitled "National Library and Information Services Infrastructure for Scholarly Content" (N-LIST) provides access to electronic journals and electronic books to eligible colleges vi) e-PG Pathshala, the MHRD, under its National Mission on Education through ICT (NME-ICT), has assigned work to the UGC for development of e-content in 77 subjects at postgraduate level and vii) Integrated e-content portal, web-based portal consisting of all e-content developed and funded under the National Mission of Education through 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 different 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. 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:

4.1. 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 21. 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 I.

4.2. 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 five 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 II.

4.3. Finance Committee

The Finance Committee (FC) is a sub-committee of the Governing Board and consists of eight members. It has six ex-officio members and two 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 III.

5. 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 is given in Appendix IV.

6. Scientific and Technical Activities

The scientific and technical manpower available in the Centre are clustered into a number of 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 below:

6.1. 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. Specialized training programmes were organized on topics related to library automation, standard bibliographic formats, tools and techniques and retro-conversion.

6.2. Database Management R & D Group

The Centre, since its inception, has a mandate to build and maintain union databases of library resources available in Indian university libraries. The Centre has developed "IndCat: Online Union Catalogue of Indian Universities" that contains bibliographic records of books, serials and theses contributed by participating universities in all disciplines. The Centre has received 1,28,56,096 records from 157 participating universities in different bibliographic formats including 74.06 lakhs unique records. These unique records was converted into format and merged into IndCat with information for each participating universities. The IndCat is available through a web interface developed in-house at <http://indcat.inflibnet.ac.in>. Apart from the databases of books, serials and theses available through IndCat, the Centre also has other non-bibliographic databases developed for benefit of the academic community. The major union databases and number of records in each database are listed below in table 1.

| Name of the Database | No. of Records | No. of Institutions |
|----------------------|----------------|---------------------|
| Books | 1,28,56,096 | 157 |
| Theses | 2,64,628 | 298 |
| Serials | 33,347 | 213 |
| CEC's Video Database | 15,000 | 18* |

*CEC and its 17 media Centres

Table 1: Number of Records in IndCat and Other Databases

The Database Management R & D Group comprises of personnel with background in computer science and library science. The personnel with background in library and information science are responsible for obtaining bibliographic records from different universities in different formats and converting them into one common prescribed standard format. They are also responsible for merging new records into the union database after due authentication. The personnel with computer science background are responsible for developing software tools for data conversion, data authentication and web-based search interface for the union catalogue. Union Catalogue Management System (UCMS) and IndCat have been developed in-house to address the requirements of the Database Management R & D Group as mentioned above.

6.2.1. IndCat: The Union catalogue of Books, Theses, Serials and Videos with Beta Version (<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 screenshot of IndCat.

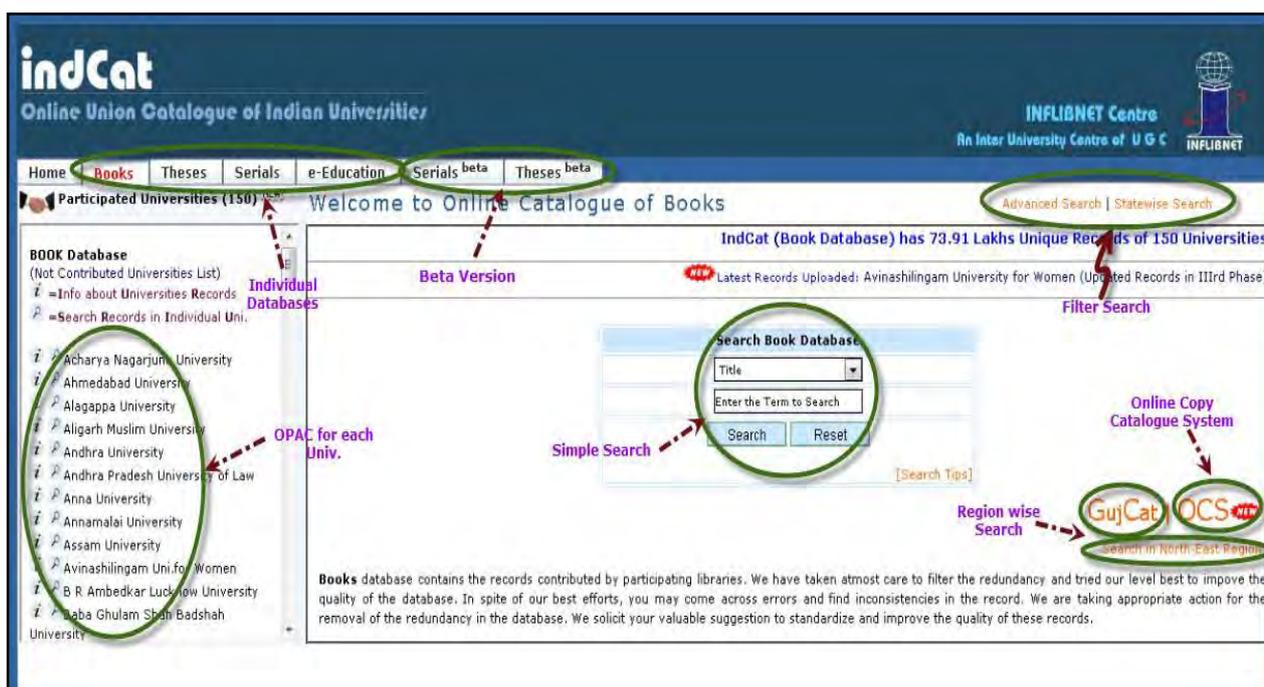


Fig. 1: Search Interface for Books, Theses, Serials & Video Databases (Beta Version)

Beta Version for Theses & Serials Databases

Figure 2 displays brief bibliographical details in beta version of IndCat.

The screenshot shows the IndCat website interface. At the top, there are navigation tabs: Home, Books, Theses, Serails, e-Education, **Serails beta**, and **Theses beta**. Below the tabs is a search bar with the text 'Search results for 'Library Automation' (0.234 seconds)' and 'Total Results : 33'. The search results are displayed in a table-like format with the following entries:

| Title | Researcher | Guide | University | Department | Year |
|---|-------------------------|---------------------|--|---------------------------------------|------|
| Labeled graphs and matrices: automation to real | Saroach, Vandana | Nambiar, K K | Jawaharlal Nehru University, New Delhi | Department of Engineering | 1995 |
| Micro-computer applications to instrumentation and automation | Chandir, Pradeep Keshav | Sharma, P C | Devi Ahilya Vishwavidyalaya, Indore | Department of Electronics Engineering | 1986 |
| Worker's attitude towards automation in relation to certain personality attributes and organisational perceptions | N. | T. | Osmania University, Hyderabad | Department of Psychology | |
| Philosophy and technique of library historiography in hindi | Sharma, Shiv Kumar | Megh, Ramesh Kuntal | Guru Nanak Dev University, Amritsar | Department of Hindi | 1978 |
| Critical study of the organisation and utilisation of libraries in higher educational institutions in kerala | Bhavakutty, M A | Gomathy, Ammal M | University Of Kerala, Thiruvananthapuram | Department of Education | 1984 |
| History of the public library movement in western maharashtra, 1806- 1921 | | | | | |

On the right side, there is a 'Theses Data Chart' showing a pie chart and a list of 'Theses Database' statistics:

- Total Index Record : 11875
- University: Nagpur University [6], University of Pune [5], Osmania University [3], Devi Ahilya Vishwavidyalaya [2], Jawaharlal Nehru University [2]
- Department: Department Of Library [4], Department Of Commerce [2], Department Of Education [2], Department Of Psychology [2], Department Of Social Science [2], Department Of Sociology [2]
- Researcher: Dharya Geeta Suresh [1], Barve Sunita A [1], Bhavakutty M A [1], Chandir Pradeep Keshav [1], Chopra Prang Raj [1], Dasgupta Indrani [1]

Fig. 2: Beta Version for Theses & Serials Databases

Figure 3 displays bibliographical details with MARC Tag

The screenshot shows the MARC Tag view of a bibliographical record. The tags and their values are as follows:

```

0000000cam a2200000ua 4500
001101758
003INFLIBNET
008t1995|||||||000 ||eng c
016|aINFLT00000101758
0410|aeng
0500|a010
020|cJNUL-110067|aJawaharlal Nehru University|d13/01/2011 00:00:00
502|bPh.D|cJawaharlal Nehru University|d1995
260|aNew Delhi|bJawaharlal Nehru University|c1995
65300|aPhysical Sciences
65300|aEngineering
24510|aLabeled graphs and matrices: automation to real
1100|aDepartment of Engineering|bJawaharlal Nehru University|dNew Delhi
044|eIn
700|aNambiar|bK K|eGuide
1000|aSaroach|bVandana|eResearcher
3620|a1995
  
```

Fig. 3: Bibliographical Details in MARC Format

6.2.1.1. 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 Assistant (LS)

6.2.1.1.1. 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. Figure 4 depicts process of building IndCat. 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.

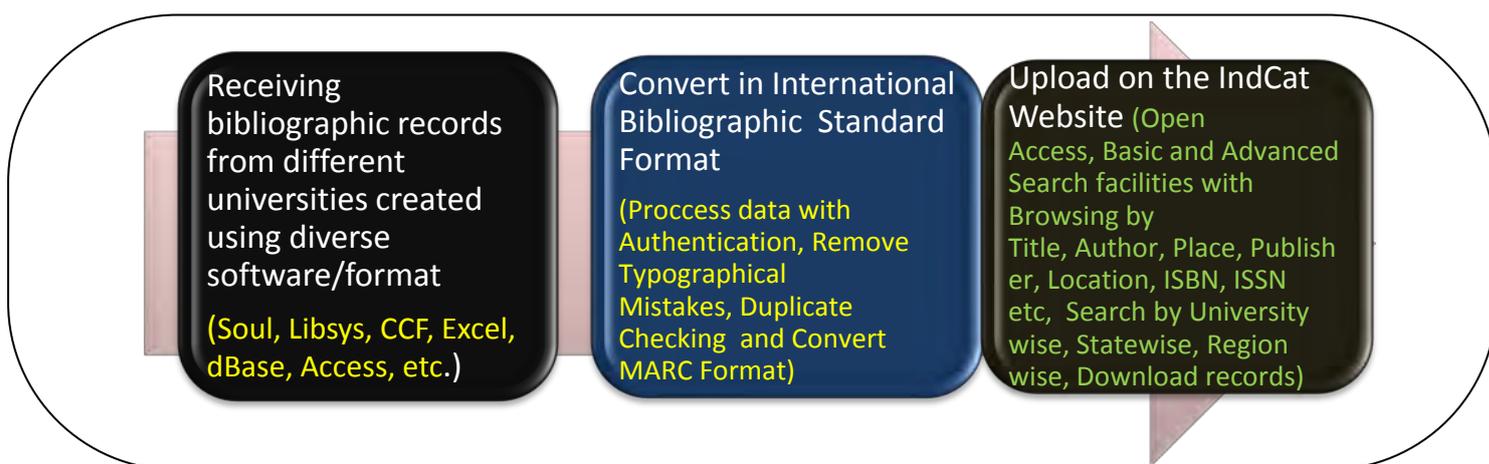


Fig. 4: Process Involved in Building IndCat

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 provides facilities for 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

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

- » **Brief:** By default, retrieved records are displayed in brief. A brief bibliographic record contains title, author, 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 5 depicts bibliographic details of searched records.

The screenshot shows the IndCat interface with the following details:

indCat
Online Union Catalogue of Indian Universities

Navigation: Home, Books, Theses, Serials, e-Education

University List (Left): Alagappa University, Aligarh Muslim University, Andhra University, Anna University, Annamalai University, Assam University, Avinashilingam Uni.for Women, B R Ambedkar Lucknow University, Banaras Hindu University, Banasthali Vidyapith, Bangalore University, Bharathiar University, Bharathidasan University, Bharati Vidyapeeth, Bhavnagar University

Bibliographic Details:

- ISBN: 1-85604-295-2
- Title: Planning for library automation: a practical handbook, John M.Cohn, Ann L.Keleseey and Keith Michael Fiels/ revised and adapted by Graeme Muirhead
- Author: Cohn, John M, Keleseey, Ann L, Fiels, Keith Michael
- Place and Publisher: London: Library Association Publishing
- Date of Publication: 1998
- Classification Scheme Notation: 025.02854+ C661rev.ed
- Date of entry: 10/31/03 13:23:44
- Language: eng
- Physical Medium: Paper
- Edition Statement: rev ed
- Bibliographical Level: Monograph
- Type of Material: Textual Document
- Location: CLCT-700073
- Last updated Date: [blank]

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Fig. 5: Bibliographic Details of a Searched Record

6.2.1.1.2. Functions and Features of IndCat

i) Restrict Search within a University / State

Search in Union Catalogue, by default, is conducted on the entire database containing records from all university. User can restrict their searches to the records available within their own university on different search parameters, like Title, Subject, Author, Place, Publisher, etc.

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

Advanced search: Advanced search facilitates use of Boolean operators, i.e. using AND, OR, NOT operators with different search parameters i.e. Title, Author, Corporate Body, Place & Publisher, Year, Subject, Note, 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 holdings 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 North-eastern universities.

6.2.1.1.3. Bibliographical Records for Books added during Year 2013-2014

The Centre received data from four universities in different format as per the details given in table 2 below.

| Sl. No. | University Name | Received Records |
|---------|--|------------------|
| 1 | Avinashlingam Institute for Home Science, Coimbatore, Tamil Nadu | 8,346 |
| 2 | Chaudhary Charan Singh University, Meerut | 9,409 |
| 3 | Indian Institute of Advanced Study, Shimla, Himachal Pradesh | 67,268 |
| 4 | Rajiv Gandhi Prodyogiki Vishwa Vidhyalaya, Bhopal (MP) | 33,673 |

Table 2: Details of Bibliographic Records Received from 4 universities

During the period under report, the Centre has merged bibliographic records of 4 universities in IndCat as per the details given in table 2 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 5 universities in IndCat using UCMS software is given below in table 3:

| Sl. No. | University Name | Received Records | *Duplicate Records | #Matched Records | +Merged Records |
|---------|---|------------------|--------------------|------------------|-----------------|
| 1 | Sree Chitra Tirunal Institute for Medical Science & Technology, Trivandrum | 24,095 | 1,252 | 493 | 22,350 |
| 2 | Karnataka State Women`s University, Bijapur | 42,464 | 18,113 | 197 | 24,154 |
| 3 | GLA University, Mathura | 11,549 | 594 | 3 | 10,952 |
| 4 | Chaudhary Charan Singh University, Meerut (Updated Records-2 nd time received) | 9,409 | 245 | 54 | 9,110 |
| 5 | Avinashlingam Institute for Home Science, Coimbatore (Updated Records received in III Phase) | 8,346 | 1,853 | 597 | 5,896 |

*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 3: Merged Bibliographic Records of 5 universities in Union Database (IndCat)

Table-4 given below provides holding records added to the Union Database of Books during in year under report.

| Sl. No. | Details | No. of Records added During the year 2013-2014 |
|---------|-----------------|--|
| 1 | Unique Records | 72,462 |
| 2 | Holding Records | 99,179 |
| 3 | OCS Records | 385 |

Table 4: Bibliographic Records Authenticated and Merged in Union Database (IndCat)

6.2.1.1.4. 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 128 lakh records in 2014 as depicted in table 5 and Figure 6 given below. List of universities and number of records contributed by them are listed in Appendix V.

| 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 |

Table 5: Status of Book Data from 1999 to 2014

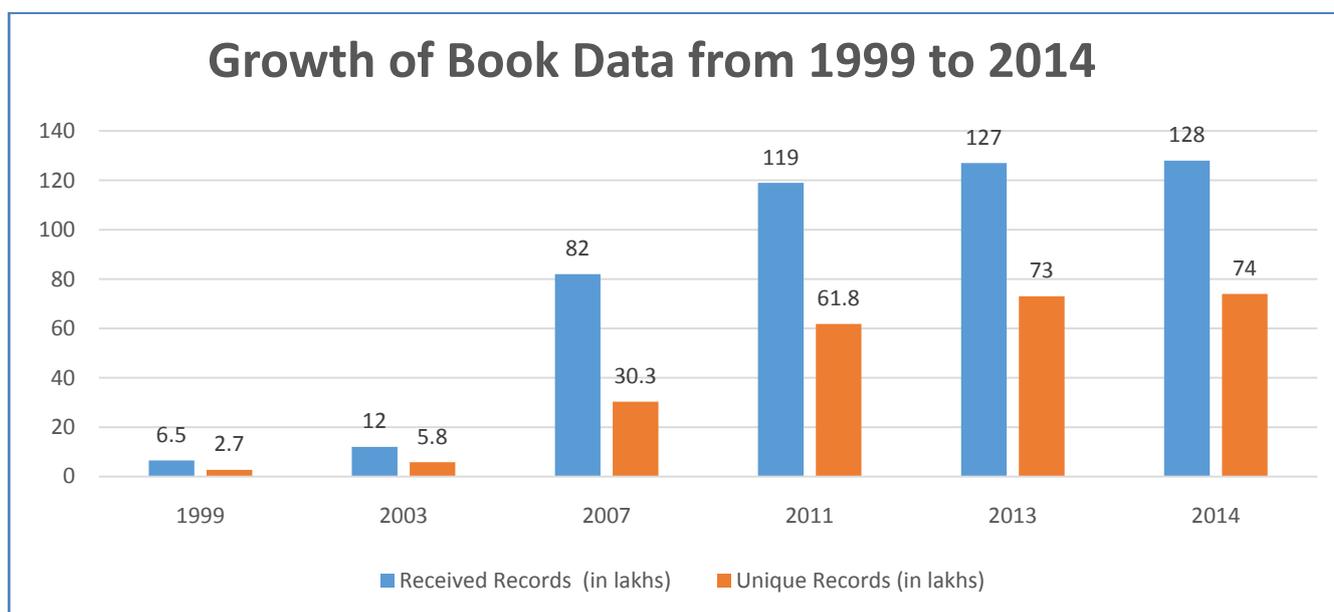


Fig. 6: Growth of Union Catalogue of Books

6.2.1.1.5. 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/indcat/includes/UserGuide_OCS.pdf

6.2.1.1.6. Major Achievements during Financial Year 2013-14

- ▶▶ Bibliographic data of books for 5 universities was merge after editing them through UCMS;
- ▶▶ The Centre has hosted the beta version of “Theses and Serials Databases” 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 has launched the beta version of union catalogue which include all databases i.e book, theses, serial and CEC’s Video records. Through this version, university may update their records directly by login into system; and
- ▶▶ Features and functionalities of UCMS were further enhanced. Significant improvement was made in the process of merging of bibliographic data into union database.

6.2.1.2. Union Catalogue of Serials

Dinesh Ranjan Pradhan, Scientist - B (LS)

Kuldeep Matieda, Project Associate (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 33,347 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.

6.2.1.3. Union Catalogue of Theses

Abhishek Kumar, Scientist C (CS)

Vaishali Shah, Scientist B (LS)

Swyamprakash Rajput, Project Associate (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 2,64,628 unique bibliographic records of the theses awarded by 298 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.

The compilation of Union Catalogue of Theses commenced in 1995 with 52,000 records from 82 universities. The database has grown to 2,64,628 records as on March 31, 2014 from 298 universities over a period of 20 years.

The Centre receives a copy of notification on award of Ph.D. thesis from different universities across the country. Table 6 and Figure 7, given below depict growth of theses database from 1995 to March 2014.

| 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 |

Table 6: Growth in Number of Records in Theses Database: 1995 – 2014

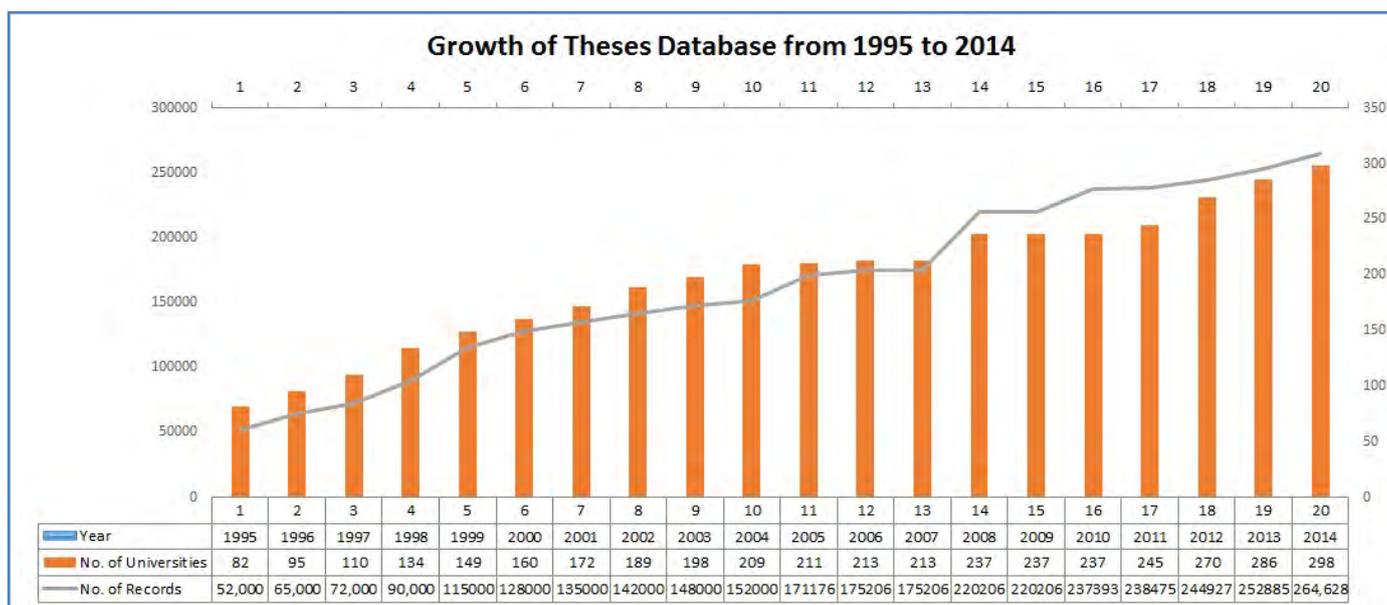


Fig. 7: Year-wise Growth of Theses database

Theses database can be searched through IndCat interface by title, researcher, research supervisor, university, department, year of submission, subject terms, etc. Bibliographic records of the 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 V.

6.3. VIDWAN: Expert Database (<http://vidwan.inflibnet.ac.in>)

Kannan P, Scientist C (LS)
Abhishek Kumar, Scientist C (CS)
Vipul Banker, SOUL Technical Assistant (LS)
Alpa Acharya, Project Associate (LS)

VIDWAN is the premier database of profiles of scientists and faculty members working at 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 to i) quickly and conveniently provide information about experts to peers, prospective collaborators, funding agencies, policy makers and research scholars in the country; ii) establish communication directly with the experts who possess the expertise needed by research scholars; iii) identify peer reviewers for review of articles and research proposals; iv) create information exchanges and networking opportunities among scientists and v) discover prospective collaborators for on-going research projects.

As on 31st March, 2014, the database contains 11,954 profiles of experts from 897 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.

On 6th December, 2013, the INFLIBNET Centre has proposed for funding support to the National Mission on Education through Information and Communication Technology (NME-ICT) to enrich the features & functionalities of the Vidwan interface populate the database and publish the profiles in the semantic based VIVO platform. The NME-ICT has approved the proposal and sanctioned Rs. 52.70 Lakhs for the period of three years (2014-2017). Figure 8 depicts screenshot of VIDWAN: Expert Database website.

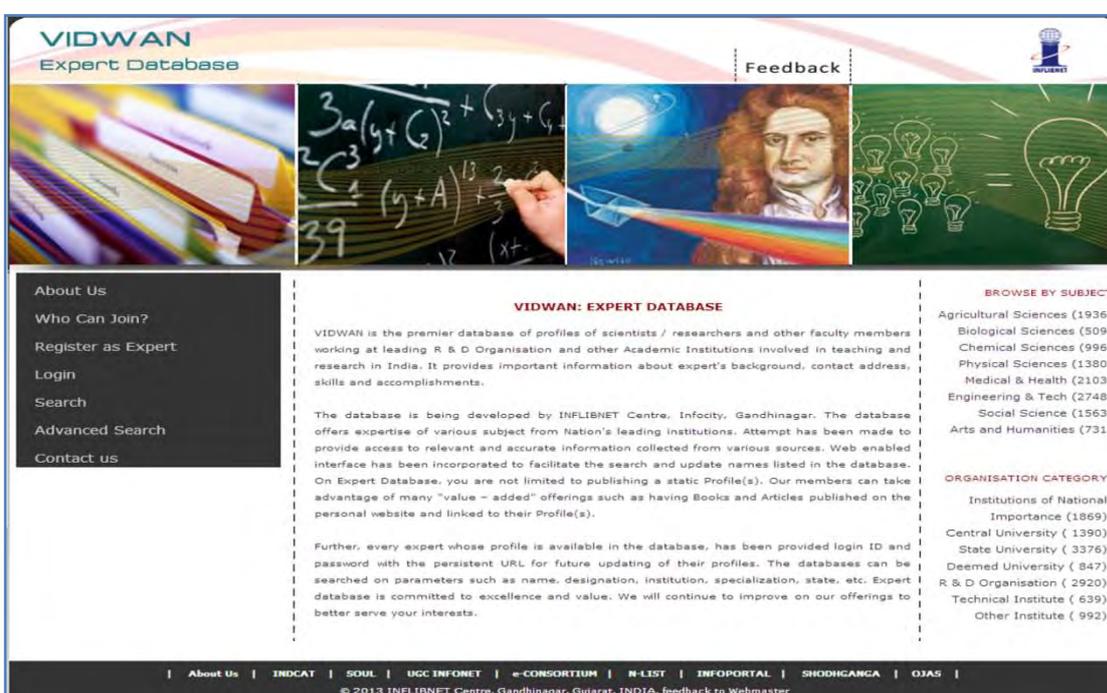


Fig 8: VIDWAN: Expert Database @ INFLIBNET Centre

6.3.1. Progress Made During the Year

During the period under report, new features were added to the interface of Vidwan to enhance the functionalities such as expert profiles linked with IndCat-Union catalogue of book and theses for the respective books authored and with Shodhganga for respective researcher guided. Also Vidwan database was integrated with external identity providers to display and update bibliographic details such as ORCID ID, Researcher ID, Scopus ID and Google Scholar ID. Through ORCID ID, experts could update their scholarly publication details from different sources. About 2,576 new profiles have been added to the database and around 4,382 profiles were updated. The expert profiles are collected via nomination from scientific and academic organisations, national level academies, websites of respective organisations as well as the regular voluntary registration. Figure 9 and figure 10 depict number of experts & their subject category and geographical region.

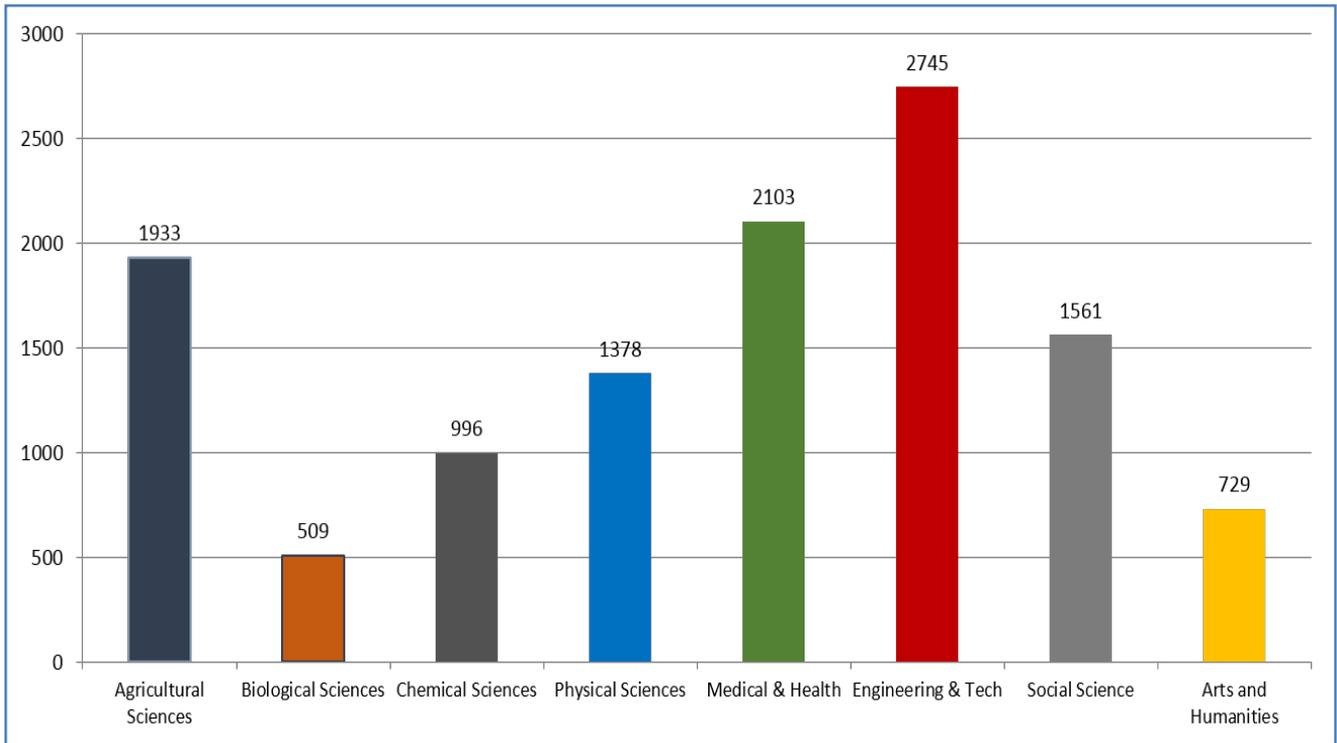


Fig 9: Number of Experts and their Subject Category in Vidwan Database (Web of Science Subject Category)

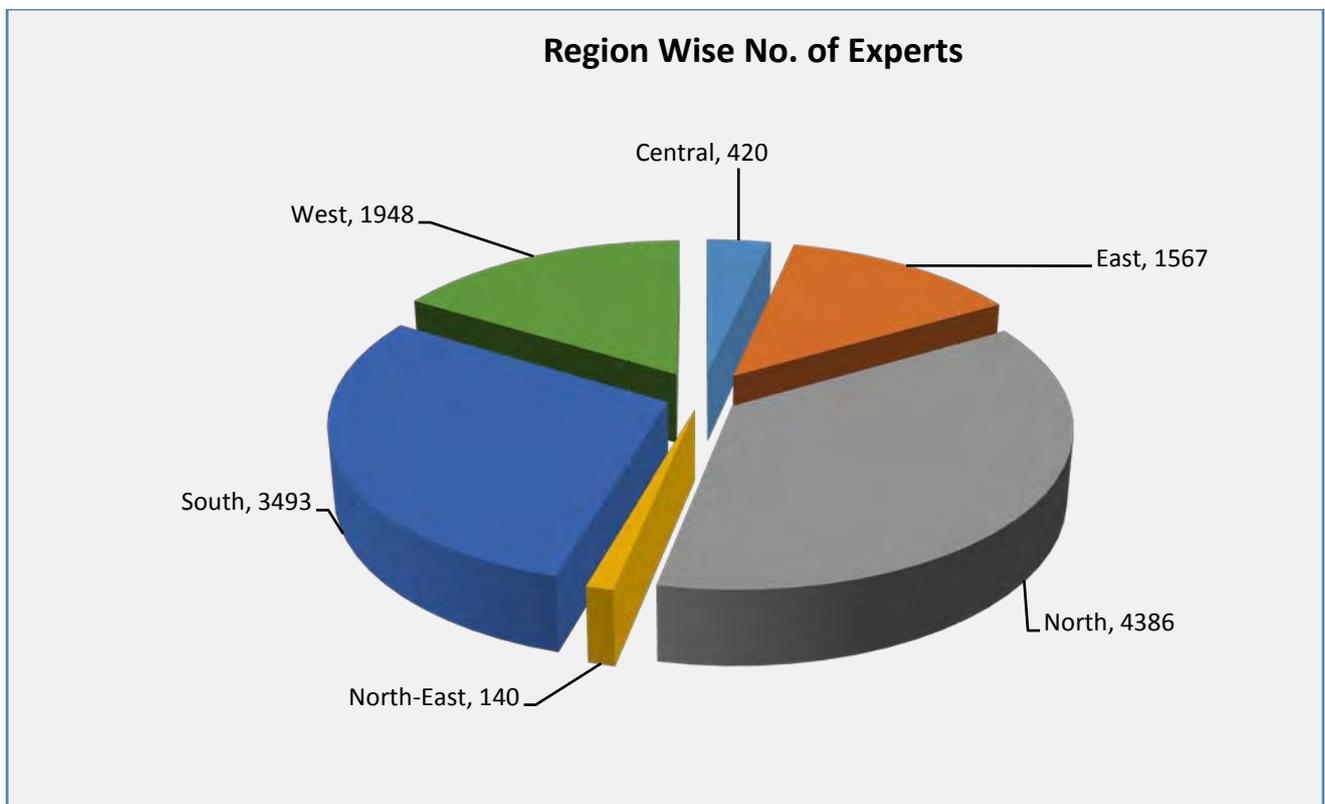


Fig 10: Region Wise Number of Experts in Vidwan Database

6.4. Research Projects Database

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 March 31, 2014, 222 records were added in the database which has increased the total records in the database upto 15,057. The Centre gets project details along with the project reports in print/digital formats from the project investigators of MRP funded by the UGC regularly. The softcopy and print copy of the project reports are available at the INFLIBNET Centre for walk-in users. Project Investigators of the UGC project funded minor research projects 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/>).

6.5. Software R&D Group

6.5.1. 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 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 2,832 institutions across the country as on 31st March, 2014. 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, Andhra Pradesh have fully automated their libraries using SOUL Software.

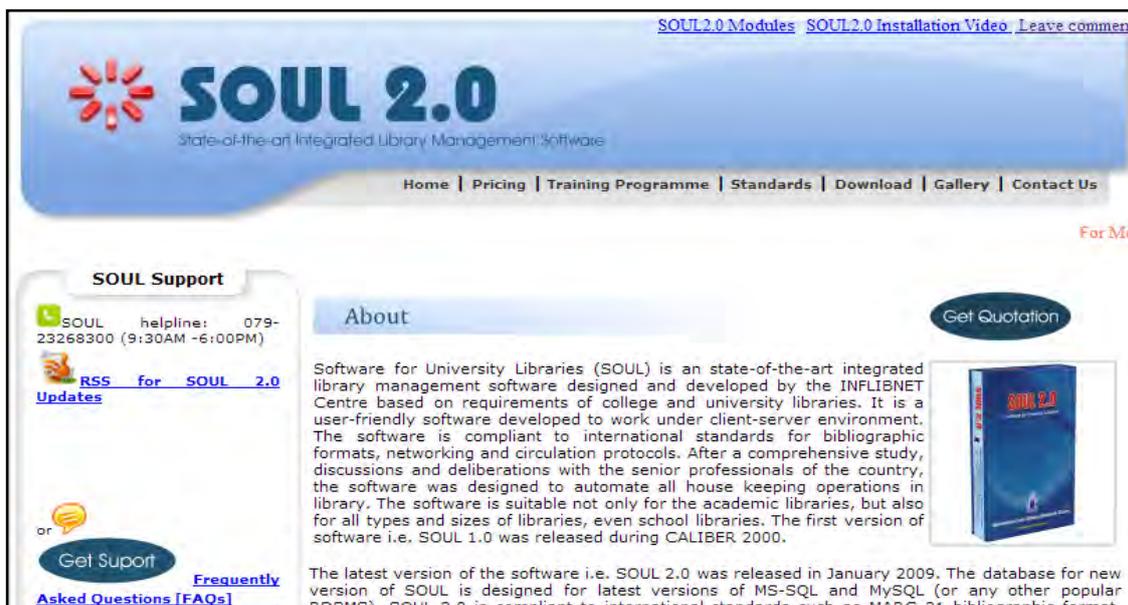


Fig. 11: Website for SOUL 2.0

A separate website is maintained for the SOUL 2.0 as shown in Figure 11. The website provides detailed information about SOUL 2.0 along with the updates of software.

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

6.5.1.1. 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 (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 given library. The Centre has customized SOUL software for many institutes including major universities like Banaras Hindu University, Varanasi, Maharaja Sayajirao University, Baroda, etc.

Apart from this, the Centre is also converting client's existing data (in 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, etc. to SOUL 2.0 compatible format. More than 4.80 lakh bibliographic records from 29 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

6.5.1.2. SOUL-Web Edition

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

Based on users need and current trends, development of web-based version of SOUL is already in progress. Currently administration, acquisition and circulation modules of SOUL web edition are under development. The web edition of SOUL would be platform independent that would run on any operating system (i.e., Linux, Windows). Any browser can 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.

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

6.5.1.3. 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 the migration of SOUL software with 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 best Graphical User Interface wherein user can create or choose theme for his/her account. Users can be able to change the font size as per their requirement. This version has facility of sending SMS/EMAIL for each circulation transactions.

Technologies: Microsoft Visual Studio 2013, WPF, MS SQL 2012, Microsoft Platform

6.5.2. Institutional Repositories Customizations and Support Initiative

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

The INFLIBNET Centre has started assisting higher learning institutes 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, Centre has installed and customized

Institutional Repository for various institutions including National Institute of Occupation Health, Ahmedabad (Centre of ICMR, New Delhi) and Indian Institute of Technology, Gandhinagar.

Besides, the Centre has also provided proactive help and support to many institutes like Raman Research Institute, Bangalore, Dhirubhai Ambani Institute of Information and Communication Technology (DAIICT), Gandhinagar over phone and via remote login to setup their repositories on their own.

During the year under report, the Centre has started and extended hosting service for DSpace and other projects at newly established Data Centre at INFLIBNET Centre.

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.

The INFLIBNET's Institutional Repository has been upgraded to Dspace version 4.0.

6.5.3. New Web-based Platform for Serials and Theses Database

Abhishek Kumar, Scientist C (CS)

Dinesh Ranjan Pradhan, Scientist B (LS)

Swyamprakash Rajput, Project Associate (CS)

Jaynil Gandhi, Project Associate (CS)

The INFLIBNET Centre has developed a new interface for searching Serials and Theses databases. This interface also incorporates 'Serials /Theses Database Management System' that is used for uploading and maintaining of serials and theses records. Figure 12 depicts New Web-based Platform for Serial Database.

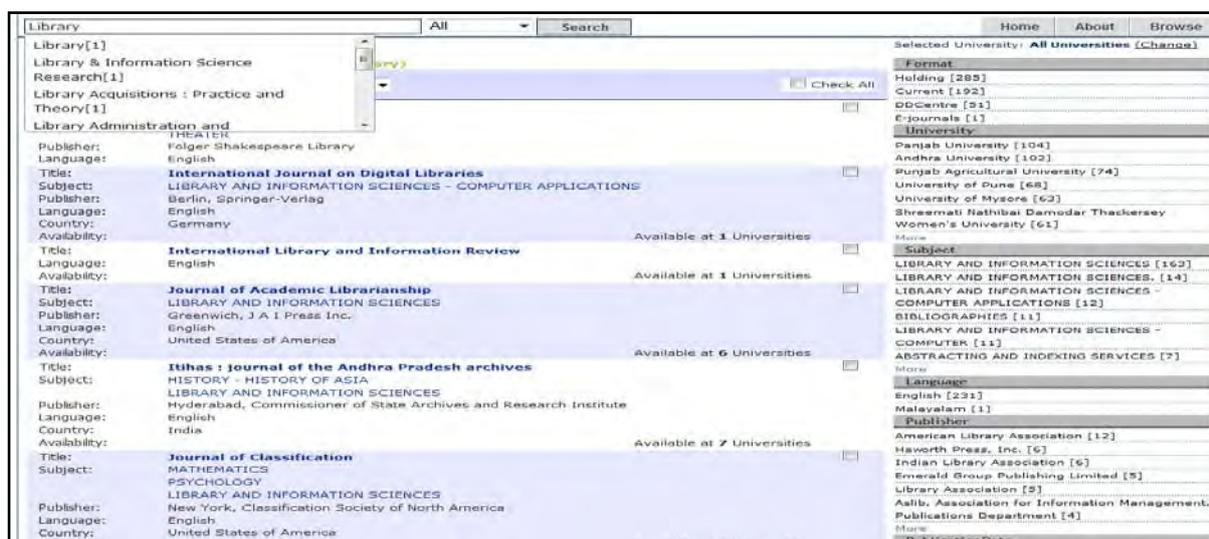


Fig. 12: New Web-based Platform for Serials Database

The new interface provides faster search result with faceted search features. The interface incorporates web 2.0 features enabling universities / institutes to interact directly with their institutes' records.

The Theses Database Management System was redesigning to fetch bibliographical data from Shodhganga and incorporate them into theses database. Theses database also facilitate navigation from bibliographic records available in IndCat to full-text theses available in Shodhganga. Figure 13 depicts New Web-based Platform for Theses Database.

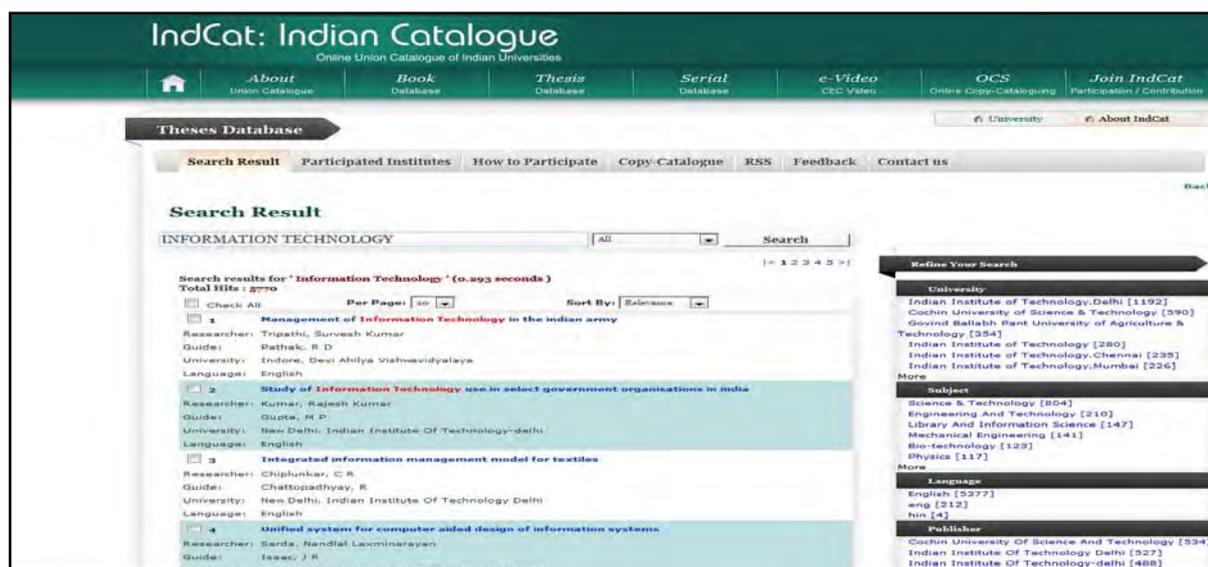


Fig. 13: New Web-based Platform for Theses Database

Technologies: Solr, PHP, MY-SQL, Postgres

6.6. 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 about 561 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 44,698 participants. INFLIBNET Regional Training Programmes for Library Automation (IRTPLA) and User Awareness Training 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 112 Training Programmes on SOUL Installation and Operations for Libraries so far. A brief report on these training programmes organised during the period under report is given below:

6.6.1. Training Programmes on Installation and Implementation of the SOUL Software

The INFLIBNET Centre provides five-day Orientation Training Programme on Installation and Implementation of the SOUL Software. The training programme is specially designed for imparting training to new users in libraries. 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 March 31, 2014, a total no. of 112 such training programmes was organized at the Centre. During the period under report, 7 training programmes were organized to impart training to 160 participants from different institutions as shown in table 7 and figure 14 given below.

| Sl. No. | Name of Training Programmes | Period | No. of Participants |
|---------|---|--|---------------------|
| 1 | 106 th SOUL Training Programme | 29 th July - 2 nd August 2013 | 30 |
| 2 | 107 th SOUL Training Programme | 2 nd - 9 th September 2013 | 34 |
| 3 | 108 th SOUL Training Programme | 7 th - 11 th October 2013 | 26 |
| 4 | 109 th SOUL Training Programme | 28 th October - 1 st November 2013 | 16 |
| 5 | 110 th SOUL Training Programme | 16 th - 20 th December 2013 | 19 |
| 6 | 111 th SOUL Training Programme | 20 th - 24 th January 2014 | 22 |
| 7 | 112 th SOUL Training Programme | 10 th - 14 th March 2014 | 13 |
| | Total | | 160 |

Table 7: SOUL Training Programmes Organized at the INFLIBNET Centre during 2013-14

As depicted in figure 14, a total number of 178 copies of SOUL Software were released during the year under report including 126 copies that were sold out to new users and 52 copies that were offered free-of-cost to the users of SOUL 1.0. These 178 copies of SOUL Software include 116 copies of Limited Edition (including 21 copies given free) and 62 copies of Full Edition (including 31 copies given free).

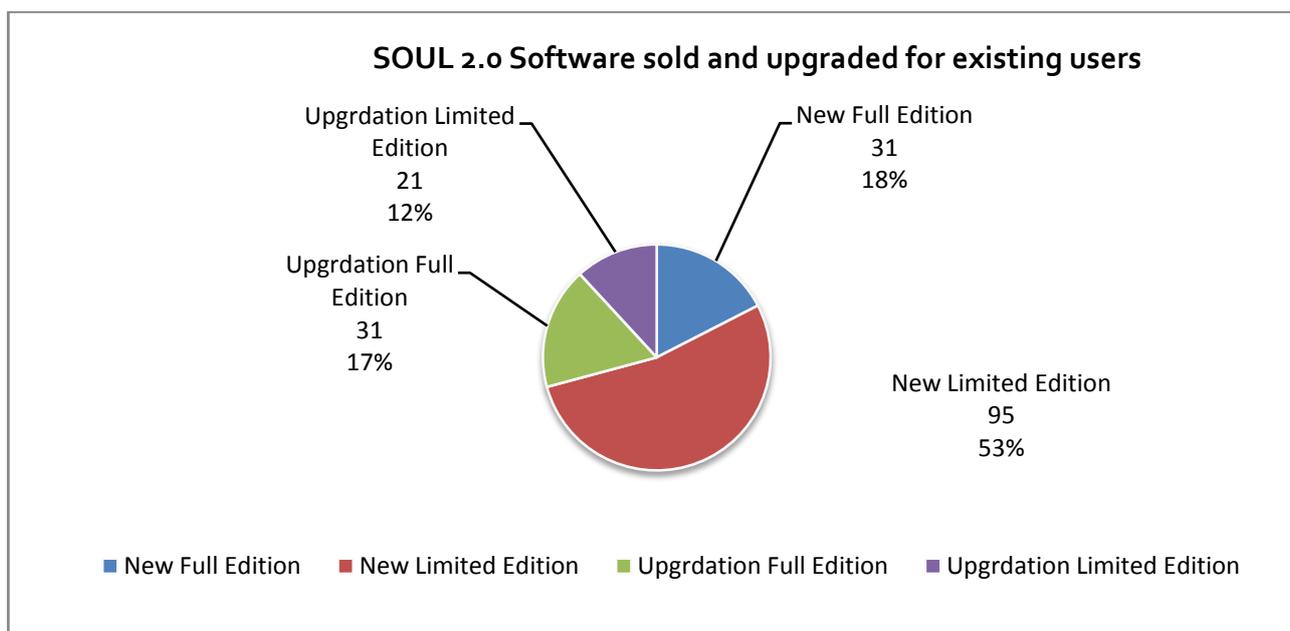


Fig. 14: SOUL 2.0 Software sold and upgraded for Existing Users

6.6.1.1. INFLIBNET Regional Training Programme on Library Automation

6.6.1.1.1. INFLIBNET Regional Training Programme on Library Automation, University of Kashmir, Srinagar, 18th-22nd June, 2013

The Centre organised five-day Regional Training Programme on Library Automation (IRTPLA) in collaboration with Allama Iqbal Library, University of Kashmir, Srinagar from 18th- 22nd June 2013 at Allama Iqbal Library, University of Kashmir. The Training Programme was inaugurated by Prof. Talat Ahmad, Hon'ble Vice Chancellor, in presence of other dignitaries namely, Prof. Zafar Reshi, Registrar, Prof. G Mustafa Shah, Dean, College Development Council, University of Kashmir. Dr. Abdul Majid Baba, University Librarian delivered the welcome address and briefed about various functions and initiatives taken by INFLIBNET Centre. Prof. Talat Ahmad, Hon'ble Vice Chancellor, in his inaugural speech, stressed upon computer based access to information and appreciated Allama Iqbal Library for providing various ICT-based facilities and services to its user community. He further congratulated the INFLIBNET Centre and University Librarian for organizing such events from time to time. Prof. Zafar Reshi, Registrar, in his speech, appreciated the library for organising such types of training programmes on library automation, as automation of the libraries is the need of the hour in order to retrieve specific information from huge information resources available in a library. Prof. G Mustafa Shah, Dean, College Development Council appreciated the training programme and requested Hon'ble Vice Chancellor to organize such training programmes also for B.Ed. colleges of Kashmir.

The technical sessions of the Training Programme started with presentation on "INFLIBNET Centre's activities and services" by Mr. Swapnil P. Patel & followed by another presentation on "SOUL 2.0 Overview" by Mr. Divyakant Rajnikant Vaghela. Demonstrations on modules of SOUL 2.0 were given by Mr. Divyakant Vaghela & Mr. Swapnil Patel and on installation and Backup of SOUL 2.0 by Mr. Neeraj

Kumar, Regional SOUL Technical Assistant and resource person from INFLIBNET Centre. Theoretical lectures were followed by “hands-on” practice by the participants. All theoretical and practical sessions of the INFLIBNET Regional Training Programme involved intensive discussions and interactions on various pros and cons of SOUL software between participants and resource persons. Around 35 library professionals including librarians with working knowledge in computers from universities, colleges and other institutes of Kashmir participated in the programme.

On the valedictory day, Dr. Abdul Majid Baba thanked to resource persons from INFLIBNET Centre and especially thanked Dr. Jagdish Arora, Director INFLIBNET Centre for his support and assistance in making the training programme successful and hoped such types of training programmes in collaboration with INFLIBNET Centre will be conducted in future also. Finally, Dr. Baba thanked all the staff members of the Allama Iqbal Library for their hard work and for helping in one or other to make this programme a great success. Certificates of participation were distributed to all the participants by Dr. Abdul Majid Baba, University Librarian, University of Kashmir.

6.6.1.1.2. INFLIBNET Regional Training Programme on Library Automation, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, 25th-29th November, 2013

The Centre organised five-day INFLIBNET Regional Training Programme on Library Automation (IRTPLA) in collaboration with Dr. Babasaheb Ambedkar Marathwada University Library, Aurangabad on 25th-29th November 2013. Dr. Dharmaraj K. Veer, University Librarian welcomed guests and participants. Dr. Ratnadeep Deshmukh, Management Council Member & Professor and HOD, Department of Journalism & Mass Communication inaugurated the training programme. Dr. Geeta Patil, HOD, Department of English was the chief guest for the training programme. Dr. Dharmaraj K. Veer, University Librarian coordinated the programme. He highlighted the need for implementation of new version of SOUL 2.0 in the library and appreciated efforts made by the INFLIBNET Centre in introducing new features and functionalities in SOUL 2.0 software. Mr. H.G. Hosamani Scientist C (LS), Ms. Nabila Shaikh, Project Officer (CS) and Mr. Mohammad Faizuddin Siddiqui, SOUL Technical Assistant from INFLIBNET Centre were the resource persons. While theoretical lectures were delivered in the morning sessions, afternoon sessions were devoted to “hands-on” practicals on different modules of the SOUL 2.0. Dr. Sudhir Gavhane, HOD, Dr. Babasaheb Ambedkar Marathwada University presided over the valedictory function. Certificates of participation were distributed to all the Participants by Dr. Sudhir Gavhane. 34 participants and 10 library staff members participated in the training programme.

6.6.1.1.3. INFLIBNET Regional Training Programme on Library Automation, University of Kalyani, Kalyani, 2nd-6th December, 2013

The Centre organised five-day INFLIBNET Regional Training Programme on Library Automation (IRTPLA) in collaboration with University of Kalyani, Kalyani on 2nd-6th December, 2013 at Central Library. Prof. Rattan Lal Hangloo, Hon’ble Vice-Chancellor, University of Kalyani was President and Dr. P Y Rajendra Kumar, Director General, National Library was Chief Guest of the programme. Prof. Ranjan

Chakraborty, Hon'ble Vice-Chancellor, Vidyasagar University inaugurated the programme. Mr. Abhishek Kumar, Scientist C (CS), INFLIBNET Centre, Gandhinagar was Guest of Honour. On this occasion a book exhibition was also organised between 2nd and 4th December, 2013. Dr. P Y Rajendra Kumar inaugurated the book exhibition. A total number of 15 book suppliers/publishers displayed their books in the exhibition. The inaugural function ended with plantation of tree in front of the Central Library. Mr. Anupam Sharma, Assam Regional SOUL Technical Assistant from INFLIBNET Centre was resource person. While theoretical lectures were delivered in the morning sessions, afternoon sessions were devoted to "hands-on" practicals on different modules of the SOUL 2.0. Prof. Goutam Paul, Dean, Faculty Council for P.G Studies in Science, Prof. Sumit Mukherjee, Dean, Faculty Council for P.G Studies in Arts & Commerce, Prof. Manas Kumar Sanyal, Dean, Faculty Council for P.G Studies in Engineering Technology & Management and Prof. Asoke Prasun Chattopadhyay, Department of Chemistry were present at the valedictory function as Guests of Honour. Prof. Kanak Ranjan Samadder, Former Professor, University of Kalyani delivered a lecture during valedictory session. Participants also gave their feedback on the format of training programme. Mr. Mriganka Mandal, Librarian, University of Kalyani was coordinator of the Programme. 35 library professionals including 13 professionals from affiliated colleges, 19 professionals from other universities and colleges and 3 professional from Central library attended the programme.

6.6.1.1.4. INFLIBNET Regional Training Programme on Library Automation, University of Kota, Kota, 16th- 20th December, 2013

The Centre organised five-day INFLIBNET Regional Training Programme on Library Automation (IRTPLA) in collaboration with University of Kota, Kota on 16th-20th December, 2013. The Chief Guest, Prof. Z. S. Solanki, Hon'ble Vice Chancellor, Kota Agricultural University inaugurated the programme. In his inaugural speech, he stressed upon the requirement of automation of libraries as it helps in searching and finding exact information quickly. Prof. Madhu Sudan Sharma, Hon'ble Vice Chancellor, University of Kota was Chairperson of the inaugural ceremony. In his speech, he emphasized that library is a mirror of an institution as it reflects the image of an institution. He said that library is an essential component of an institution for its academic survival. He further stressed on the different issues related to e-resources including their evaluation and management in order to serve the academic community in better ways. Prof. Ashu Rani, Professor and Head delivered the welcome address and Dr. Anna Kaushik, Deputy Librarian, Head, Department of Library and Information Science & IRTPLA coordinator elaborated on thematic concepts of the five days IRTPLA and two days Symposium on e-resources. Mr. Manoj Kumar K., Scientist-D (CS), INFLIBNET Centre delivered special lecture on INFLIBNET Centre's activities & services. Mr. Kamlesh Vegad, Project Officer (LS) and Mr. Niraj Kumar, SOUL Technical Assistant from INFLIBNET Centre were resource persons. While theoretical lectures were delivered in the morning sessions, afternoon sessions were devoted to "hands-on" practicals on different modules of the SOUL 2.0 software. Total 31 participants participated in the training programme including affiliated colleges of University of Kota, Vardhman Mahaveer Open University, Rajasthan Technical University, Kota and other colleges as well.

6.6.1.2. Specialized Training Programmes

6.6.1.2.1. Workshop on Optimizing the Potential and Impact in Research Publishing Organised by INFLIBNET Centre, Gandhinagar, 12th August, 2013

The INFLIBNET Centre organized one day Workshop entitled "Optimizing the Potential and Impact in Research Publishing" on 12th August 2013. The Workshop aimed to motivate young researchers to generate high-quality research with focus on the global reviewed and indexed research. The eminent faculty of the workshop enlighten researchers about the research publication process and explained them how to participate in the global research network. During the Workshop, ways to optimize the research publication activities and the structure of research publications, review and indexing process, methods of generating good publications was discussed, faculty interactively demonstrated global indexing databases, research networks and other citations and evaluation metrics which generated lots of interest in the participants.

The Workshop had presentations by reputed NRI experts, Dr. Pit Pichhapan who is Professor at AISB, Saudi Arabia, Visiting Professor, China's Ningbo University of Technology, University of Zululand in South Africa and University of Macau, Macau and editorial board member of a number of IEEE and other journals, as well as Dr. J. K. Vijayakumar, Senior Science & Technology Specialist Librarian, King Abdullah University of Science & Technology who has contributed quite a large number of papers in reputed journals.

The course coverage of the Workshop was as follows:

- Production of qualitative research publication
- Reflection on research carried out through the publication
- Measures for research impact
- Best way to disseminate research
- Structuring the research publication
- Assessment of the reviewed publication
- Indexed research
- Integration of the research in the process of global review and indexing
- Improvement in the research publication quality and record high research productivity

This Workshop was attended by 20 young researchers, academicians and scientists from colleges, universities, research laboratories and institutions along with INFLIBNET staff members. This Workshop was well appreciated by participants that were reflected in the feedback received with recommendations for organizing more of such Workshops.

6.6.1.2.2. Three Days Advanced Training Programme on Shodhganga, INFLIBNET Centre, 29th-31st January, 2014

Three Days Advanced Training Programme on Shodhganga was organised at INFLIBNET Centre, Gandhinagar from 29th to 31st January, 2014. Prof. R K Kale, Vice Chancellor, Central University of Gujarat inaugurated the programme with lighting the traditional lamp in the presence of Dr. Jagdish Arora, Director, INFLIBNET Centre and other dignitaries. Prof. Kale, in his inaugural speech, gave a brief history of bioscience especially in molecular biology research. Dr. Jagdish Arora, Director, INFLIBNET Centre, introduced new services and activities of the Centre while delivering Director's address. Mr. Manoj Kumar K, Scientist-D (CS) coordinated the programme and welcomed the guests and participants. Mr. H G Hosamani, Scientist C (LS) extended a warm vote of thanks during the inaugural programme. Training programme was attended by 48 participants including University Coordinators and other Stakeholders.

The programme included detailed introduction of Shodhganga, its work flow, technical process, creation of metadata and standards, submission of theses, authentication, backup, role and responsibilities of University Coordinator, etc. "Hands on" training was imparted to the participants on Dspace, backend IR software used for building Shodhganga and the effective use of ingestion interface for managing the submission process.

Technical Session on the first day began with presentation of Mr. Manoj Kumar K on Shodhganga and Shodhgangotri wherein he gave an overview of UGC Guidelines, funding and responsibilities of INFLIBNET/University. Dr. T S Kumbar, Librarian, IIT Gandhinagar delivered a lecture on ETDs at International Level. He also highlighted merits of various ETDs at International level and features and functionalities that can be adopted in Shodhganga. On second day of the Workshop, Mr. Yatrik Patel, Scientist-D (CS) delivered a talk on Introduction to DSpace and Building IR and Mr. Swapnil Patel, Scientist B (CS) explained administration of Shodhganga. Mrs. Priti H Sharma, Project Officer (LS) gave a demonstration on Injection interface of Shodhganga and procedure of uploading theses by University Coordinator. Mr. James Thorley, Director of International Sales (Asia-Pacific, Middle East, Latin America, Africa) gave demonstration on anti-plagiarism software (Turnitin/iThenticate). The demo was arranged considering the fact that Shodhganga project is procuring plagiarism detection software for 100 eligible universities. Ms. Archita and Mr. Ramiz, Project Officers explained the steps for uploading of theses with assistance in "hands on" practicals by other technical staff.

On the last day of the Workshop, techniques and practical issues involved in digitization of theses was given by Mr. Munish Bajaj, JIL Information Technology Limited, Noida. Dr. H. Anil Kumar, Librarian, IIM Ahmedabad delivered a lecture on 'Striving toward National Portal on ETDs'. He critically evaluated Shodhganga for its merits and suggested new features and functionalities to be added to Shodhganga platform. The Programme ended with the valedictory function along with certificate distribution by Dr. Jagdish Arora. Dr Arora complimented the effort of Shodhganga team for successful conduct of the training with a large numbers of participants.

6.6.1.2.3. National Workshop on Creation and Management of Digital Collection, INFLIBNET Centre, Gandhinagar, 10th-14th February, 2014

The INFLIBNET Centre organized five-day National Workshop on "Creation and Management of Digital Collection" from 10th to 14th February 2014. The Workshop was inaugurated by Dr. Jagdish Arora, Director, INFLIBNET Centre. This Workshop aimed at equipping the participants with skills for developing and managing their own digital collections 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. 24 library and computer professionals participated in the Workshop.

Mr. Manoj Kumar K, Mr. Ashok Kumar Rai and Mr. Yatrik Patel, Scientists D (CS), Mr. H G Hosamani, Mr. Kannan P. Scientists C (LS), Mr. Divyakant Vaghela and Mr. Swapnil Patel, Scientists B (CS) from INFLIBNET Centre and Dr. T S Kumbhar, Librarian, IIT Gandhinagar served as resource persons for the Workshop. Mr. Gaurav Prakash, Scientist B (CS), Mr. Vijay Shrimali, STA (CS), Mr. Ramiz Malek, Sr. Project Officer (CS), Mr. Kamlesh Vegad and Ms. Seema Chavda, Project Officers (LS) assisted in practical sessions. Dr. Jagdish Arora, Director INFLIBNET Centre presided over the valedictory function and distributed certificates to participants. Mr. Yatrik Patel, Scientist D (CS) and Mr. H G Hosamani, Scientist C (LS) coordinated the Workshop.

6.6.1.2.4. National Workshop on Creation of Digital Library using D-Space, Pt. Ravishankar Shukla University, Raipur, 15th-20th March, 2014

The INFLIBNET Centre organized five-day National Workshop on "Creation of Digital Library using D-Space" in collaboration with Pt. Ravishankar Shukla University from 15th to 20th March, 2014. Dr. S Sen Gupta, Librarian, coordinated the programme and welcomed the guests and participants. Prof. Sheo Kumar Pandey, Vice Chancellor inaugurated the programme. This Workshop aimed at equipping the participants with skills for developing and managing their own digital collections and to create awareness in new developments in the field of library and information science like managing information sources in digital environment, building institutional repositories, management of e-resources along with theoretical lectures and hands-on-training by experts. 27 library and computer professionals participated in the workshop.

Dr. S Sen Gupta, Librarian & Head, Dr. Maya Varma, Professor, School of Studies in Library and Information Science, Pt. Ravishankar Shukla University, Mr. Kesri Varma, Assistant Professor, NIT Raipur, Dr. Malikaarjun Agadi, Deputy Librarian, Prof J. Shivramma, Asstt. Professor, TISS, Mumbai, Dr. Hemanta K Biswal, NIT Central Library, Rourkela, Mr. Rakesh Kumar Khare, Regional SOUL Coordinator, INFLIBNET Centre were the resource persons.

6.6.1.3. SOUL 2.0 In-house Training Programme

6.6.1.3.1. Two-day In-house Training Programme, T. C. College, Baramati, Pune, 12th-13th April, 2013

Two-day in-house training of SOUL 2.0 software was organized by Anekant Education Society's Tuljaram Chaturchand College, Baramati in collaboration with INFLIBNET Centre on 12th-13th April 2013. Mr. Kamlesh Vegad, Project Officer (LS) and Ms. Nabila Shaikh, SOUL Technical Assistant (CS), INFLIBNET Centre were resource persons. Dr. Chandrashekar Murumkar, Principal inaugurated the training programme. The training programme was coordinated by Mr. Amar Kulkarni, Librarian and Mr. Dnyaneshwar Linge, Assistant Librarian, Tuljaram Chaturchand College. 16 participants attended the programme. Apart from training on all modules, SOUL 2.0 queries of library staff were resolved personally during this training programme.

6.6.1.3.2. Two-day in-house Training Programme, Swami Ramanand Teerth Marathwada University, Nanded, 16th-17th July, 2013

Two-day in-house training of SOUL 2.0 was organized by Swami Ramanand Teerth Marathwada University, in collaboration with INFLIBNET Centre, on 16th -17th July 2013. Mr. R. G. Dharmapurikar, Information Scientist inaugurated the training programme. Mr. Kamlesh Vegad, Project Officer (LS) and Ms. Nabila Shaikh, SOUL Technical Assistant (CS), INFLIBNET Centre were resource persons. While theoretical lectures were delivered in the morning sessions, afternoon sessions were devoted to "hands-on" practicals on different modules of the SOUL 2.0 software. At the end of the session, Dr. Katlakutte, Finance & Account Officer presided over the valedictory function. Dr. J. N. Kulkarni, I/C Librarian stressed upon the need for implementation of new version of SOUL 2.0 in the library and appreciated developers' efforts in introducing new features in SOUL 2.0 software. Certificates of participation were distributed to all the participants by Dr. Katlakutte, Finance & Account Officer, Swami Ramanand Teerth Marathwada University. 14 library staff members attended the programme. Mr. R. G. Dharmapurikar, Information scientist extended a warm vote of thanks.

6.6.1.3.3. Two-day In-house Training Programme, Secretariat of Kerala Legislature, Thiruvananthapuram, 9th-10th December, 2013

Two-day In-house Training Programme of SOUL 2.0 was organized by Secretariat of Kerala Legislature, Thiruvananthapuram in collaboration with INFLIBNET Centre, Gandhinagar on 9th-10th December 2013. Mr. K. Mohandas, Hon'ble Special Secretary, Secretariat of Kerala Legislature, inaugurated the programme. Mrs. M. R. Indu, Deputy Librarian coordinated the programme. Mrs. Hema Cholin, Scientific & Technical Officer (LS) and Mr. Vijay Shrimali, Scientific & Technical Assistant (CS), INFLIBNET Centre were resource persons. Theoretical lectures and "hands-on" practical sessions on different modules of the SOUL 2.0 software were conducted simultaneously. Mr. K. Mohandas, Hon'ble Special Secretary presided over the valedictory function and distributed the certificates of participation to the participants. 23 staff members including 20 staff members from the Kerala Legislature Library and 3 staff members

from the IT section attended the programme. Mrs. M. R. Indu, Deputy Librarian extended a warm vote of thanks on behalf of Secretariat of Kerala Legislature.

6.6.1.4. User Awareness Programmes on N-LIST

6.6.1.4.1. User Awareness Programme on E-resources subscribed under N-LIST, Gitam University, Visakhapatnam, 16th September, 2013

One-day User Awareness programme on E-resources subscribed under the N-LIST Programme was organized by GITAM University in collaboration with INFLIBNET Centre, Gandhinagar on 16th September 2013 at GITAM University, Visakhapatnam. Dr. G. Naga Ratna Mani, University Librarian & Coordinator of the programme, welcomed the guests and participants, in her welcome address, she briefed the participants about objectives and benefits of the N-LIST Programme. She also mentioned that not only government colleges but also non-aided colleges can benefit from the N-LIST Programme. Dr. Jagdish Arora, Director, INFLIBNET Centre lighted the traditional lamp during the inaugural function. Dr. Arora felicitated by Prof. G. Subrahmanyam, Hon'ble Vice-Chancellor and Dr. G. Naga Ratna Mani, University Librarian. Dr. Arora, in his keynote address, made a presentation on various programmes initiated by the INFLIBNET Centre for the universities and colleges. He briefly mentioned the present status of the N-LIST programme, objectives, how to access the resources, benefits of the programme and advised the degree colleges to join the N-LIST project. Prof. G. Subrahmanyam, Hon'ble Vice-Chancellor GITAM University, in his address, appreciated the efforts made by INFLIBNET Centre. He said that the Centre is providing access to e-resources to the degree colleges and thereby playing a vital role in the collection development of these libraries. Ms. Kruti Trivedi, Scientist B(LS), INFLIBNET Centre, in her presentation, explained about N-LIST project, objectives, eligibility and benefits. She clarified the doubts raised by various college principals / librarians regarding access to resources. 20 participants attended the programme. Mrs. G. Srivalli, Knowledge Resource Centre extended a warm vote of thanks to the participants, university authorities and INFLIBNET Centre.

6.6.1.5. User Awareness Programme on Shodhganga

6.6.1.5.1. User Awareness Programme on Shodhganga, Manonmaniam Sundaranar University, Tirunelveli, 14th May, 2013

One-day User Awareness Programme on Shodhganga was jointly organized by Manonmaniam Sundaranar University, Tirunelveli in collaboration with INFLIBNET Centre on 14th May 2013. Dr. A. Thirumagal, University Librarian, welcomed the Chief Guest, Vice-Chancellor, Dean of Science and participants. Dr. A. K. Kumaraguru, Honorable Vice-Chancellor presided over the function and inaugurated the scholarly session with his inspirited conversation. He encouraged the research scholars to use e-content made available to University to update their knowledge. Dr. D. Pathinettan Padiyan, Dean of Science gave felicitation address. In his speech, he mentioned step-by-step development of tie up with the INFLIBNET Centre. Further, he mentioned that usage statistics of e-resources accessible to

them has improved along with research output of the university. Mr. Manoj Kumar K., Scientist D (CS) was the resource person from INFLIBNET Centre. He gave "hands-on" training on "Shodhganga". He guided the students, about the process of uploading thesis into Shodhganga. Nearly 182 participants including research scholars and faculty members attended the awareness programme. Dr. K. Kannan, Assistant Librarian extended a warm vote of thanks at the end of session.

6.6.1.5.2. User Awareness Programme on Shodhganga, S. N.D.T. Women's University, Mumbai, 25th June, 2013

One-day User Awareness Programme on Shodhganga was jointly organized by the INFLIBNET Centre and S.N.D.T. University on 25th June, 2013. Prof. Madhura Kesarkar, Director, Board of College and University Development (BCUD) welcomed the guests and participants. She mentioned that University has signed an MoU with INFLIBNET Centre in August 2012 & submitted 73 theses into Shodhganga repository. Prof. Vandana Chakrabarti, Pro-Vice Chancellor inaugurated the programme. In her inaugural address, she mentioned that university is using Shodhganga for uploading and searching theses since the MoU was signed, but after this user awareness programme, it would be even more trouble-free and easy for university to upload theses themselves and use theses through Shodhganga. She mentioned that plagiarism detection software to be provided by the INFLIBNET Centre would help the university to become more alert on copying the contents of other researchers. Mr. Manoj Kumar K., Scientist-D (CS), INFLIBNET Centre was the resource person for the training programme on behalf of INFLIBNET Centre. Mr. Manoj Kumar made a detailed presentation on "Shodhganga: A Repository of Indian Theses & Dissertation" and "Shodhgangotri: a Repository of Research in Progress". He guided faculty and scholars about access to various information and academic resources and discussed about how research work from India is used through Shodhganga repository from various countries i.e. Canada, Hungary etc. & acknowledged that how useful, they found it. Dr. Durga Murari, Deputy Librarian extended a warm vote of thanks. More than 50 participants including faculty members and research scholars attended the programme and sought clarifications about Shodhganga.

6.6.1.5.3. User Awareness Programme on Shodhganga, Hemchandracharya North Gujarat University, 6th September, 2013

One-day User Awareness Programme on Shodhganga was jointly organized by the INFLIBNET Centre and Hemchandracharya North Gujarat University on 6th September, 2013 at Rangbhavan Auditorium, University Campus, Patan. Dr. S. A. Bhatt, IQAC Co-ordinator, Hemchandracharya North Gujarat University (HNGU) welcomed the guests and participants. He highlighted the research work carried out at HNG University. Dr. J.H. Pancholi, Formal Pro Vice Chancellor inaugurated the programme. Mr. Manoj Kumar K., Scientist-D (CS), Mrs. Archita Muchhadia, Project Officer (LS) and Ms. Sneha Acharya, Admin Associate, INFLIBNET Centre were resource persons for the training programme. Mr. Manoj Kumar made a detailed presentation on "Shodhganga: A Repository of Indian Theses & Dissertation", "Shodhgangotri: a Repository of Research in Progress" and guided the research scholars and research supervisors on access to various information and academic resources. Mrs. Archita Muchhadia, Project Officer (LS) and Ms. Sneha Acharya, Admin Associate, INFLIBNET Centre imparted technical training to

all participants. Dr. Ashwin Modi, I/C Head at Department of Hospital Management, HNGU, Patan was coordinator of this event. Dr. D. M. Patel, Registrar (I/C), HNGU extended a warm vote of thanks to participants, university authorities and INFLIBNET Centre. More than 150 participants including faculty members and research scholars attended the programme.

6.6.1.5.4. User Awareness Programme on Shodhganga, Jamia Hamdard University, New Delhi, 5th December, 2013

One-day User Awareness Programme on Shodhganga was organized by Jamia Hamdard University, New Delhi in collaboration with INFLIBNET Centre at Hamdard Archive & Research Centre on 5th December 2013. The Programme commenced with a soulful recitation from the Holy Quran by the library staff. It was attended by Ph.D research scholars from various departments of the university. Dr. Tanweer Shahab, Assistant librarian coordinated the programme and welcomed the guests and participants. Dr. S. Raisuddin, Director (Research) spoke about the need to observe ethics in research and publications. He stated that research students should not tailor-made their experiments to prove a chosen hypothesis and instead they shouldn't shy away with negative findings which disprove their hypothesis. Dr. Gayas Makhdumi, University Librarian delivered keynote address. In his address, he opined that, as all public-funded research has to be made available in public domain, there is no better way than to host the research outputs of our academic institutions on the web for all interested learners to read and benefit from it. Dr. G. Qazi, Vice-Chancellor delivered presidential address, in his address, he suggested the students to take up newer and challenging research subjects so that they can have their mark of distinction among their peer researchers. Mr. Manoj Kumar K, Scientist D (CS), INFLIBNET Centre made presentation on Shodhganga in detail and highlighted by examples from several doctoral theses already uploaded by Jamia Hamdard University. He called upon Ph.D scholars to upload their synopses in the Shodhgangotri repository which enables others to understand the current research trend in Indian universities. Around 200 participants including faculty members and research scholars attended the programme. Dr. Firdous A. Wani, Registrar, Jamia Hamdard University extended a warm vote of thanks at the end of the session.

6.6.1.5.5. User Awareness Programme on Shodhganga, Aligarh Muslim University, Aligarh, 7th December, 2013

One-day User Awareness Programme on Shodhganga was organized by Aligarh Muslim University, Aligarh in collaboration with INFLIBNET Centre at Cultural Hall, Maulana Azad Library on 7th December 2013. Aligarh Muslim University signed MoU for joining Shodhganga on 9th October 2012. The University has uploaded 263 theses into Shodhganga repository. A special training programme was organized for the library professionals as well as for computer professionals prior to the formal function and "hands-on" session organized to demonstrate uploading of a thesis from the library by the Information Scientist into the repository. Thereafter, University professionals uploaded few theses themselves on their own. This was followed by formal inaugural ceremony of the one-day awareness programme with recitation from Holy Quran by Mr. Ansar ul Haque. Prof. Muhammed H Beg, Vice Chancellor in-charge inaugurated

the programme. He emphasized that A M U library is having 7,999 theses which is to be digitized with the help of INFLIBNET Centre. Dr. Amjad Ali, University Librarian, delivered welcome address. Mr. Manoj Kumar K., Scientist D (CS), INFLIBNET Centre was resource person and made a presentation on Shodhganga. Prof. Shamim Ahmed, Professor, Department of Agricultural Economics & Business Management delivered presidential address. He mentioned AMU library is one of the oldest and popular archival library in Asia which was established in 1877. Dr. Naushad Ali, Associate Professor, Department of LIS spoke about the valuable services provided by INFLIBNET Centre for A M U Library and other libraries such as UGC Infonet Digital Library Consortium journals, N-LIST programme for colleges, OJAS, SOUL Software, etc. The inaugural session was followed by "Hands on" training to research scholars and supervisors. Around 240 participants including faculty members and research scholars attended the programme. Dr. Shyesta Bedar, Sr. Assistant Librarian extended a warm vote of thanks to university authorities, INFLIBNET Centre and the participants.

6.6.1.5.6. User Awareness Programme on Shodhganga, Mysore University, Mysore, 15th February, 2014

One-day User Awareness Programme on Shodhganga was jointly organized by the INFLIBNET Centre and University of Mysore on 15th February 2014 at Department of Library & Information Science, University Library, Mysore. Dr. Khaiser Nikam, Professor, Department of LIS welcomed the guests and participants. Prof K Chidananda Gowda, Former Vice-Chancellor, Kuvempu University inaugurated the programme. In his inaugural speech, Prof. Chidananda mentioned that India is one of top ten countries in scientific research. India has grown by 14.3 % & China by 22.8% on quality rating, India has scored 2.7 citations per article where as China scored 2.2 citations per article as per data from Elsevier Science. He also emphasized that India's publications are mostly in Chemistry (20%), English (13%), Biology & Biotechnology (12%), Maths & Physics (11%), Medical (11%) and Computer Science (11%), but he also cautioned by quoting His Excellence, President of India, Mr. Pranav Mukherjee that "we lag far behind many other countries in research and innovation". He mentioned that the total number of patent applications filled by India in 2010 was around six thousand which was only 0.30 percent of the total applications filed in the world. Mr. Manoj Kumar K., Scientist D (CS), INFLIBNET Centre delivered keynote address and made a presentation on Shodhganga during the awareness programme. Dr. Khaiser Nikam, Professor, Dept of LIS coordinated the programme. Dr C P Ramshesh, University Librarian presided over the function. Dr Adithya Kumari H, Associate Professor, Department of LIS extended a warm vote of thanks. More than 200 participants including faculty members and research scholars attended the programme.

6.6.1.6. JSTOR India User's Forum 2013

6.6.1.6.1. JSTOR India User's Forum, INFLIBNET Centre, Gandhinagar, 1st October 2013

The JSTOR, in collaboration with the INFLIBNET Centre organized JSTOR India User's Forum on 1st October 2013 at INFLIBNET Centre, Gandhinagar. Dr. Jagdish Arora, Director, INFLIBNET Centre welcomed the invitees and participants during the inaugural session. He briefed the participants about

the activities of INFLIBNET Centre. The forum was inaugurated by Dr. Kamlesh Joshipura, Vice-Chancellor, Indian Institute of Teacher Education, Gandhinagar. In his inaugural speech, Prof. Joshipura talked about the excellent services rendered by the INFLIBNET Centre for the higher education institutions in India. Mr. John Lenahan, Associate Vice President, JSTOR gave a brief introduction about the programme. Mr. Manoj Kumar K, Scientist D (CS) extended a warm vote of thanks to JSTOR, INFLIBNET Centre and the participants at the end of inaugural session.

80 participants included 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:

- i) Evaluating E-Resource Collections in a Business School Library By Dr. H. Anil Kumar, Librarian, IIM, Ahmedabad
- ii) Research Trends by Mr. John Lenahan, Associate Vice President, JSTOR
- iii) Role of Libraries in Promoting Research and Innovation in Google era By Dr. Jagdish Arora, Director, INFLIBNET Centre
- iv) JSTOR: New Directions by Mr. John Lenahan, Associate Vice President, JSTOR

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

6.6.1.6.2. JSTOR India User's Forum, Indian Institute of Technology Madras, 4th October 2013

The JSTOR, in collaboration with the INFLIBNET Centre, Gandhinagar and Indian Institute of Technology Madras organized JSTOR India User's Forum on 4th October 2013 at Central Library, IIT Madras. Dr. Harish Chandra, Librarian, IIT Madras and coordinator of the programme, welcomed the invitees and participants during the inaugural session. Dr. Jagdish Arora, Director, INFLIBNET Centre thanked Indian Institute of Technology Madras, Dr. Harish Chandra and his colleagues for organizing JSTOR Forum at a short notice and for extending their infrastructural facility completely free of cost. Mr. John Lenahan, Associate Vice President, JSTOR gave a brief introduction about the programme. Dr. M. N. Jadhav, Deputy Librarian, IIT Madras extended a warm vote of thanks to JSTOR, INFLIBNET Centre, authorities of IIT Madras and the participants at the end of inaugural session.

110 participants included 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:

- i) Web Scale Discovery Services By Dr. M. G. Sreekumar, Librarian, IIM, Kozhikode
- ii) Research Trends by Mr. John Lenahan, Associate Vice President, JSTOR

-
- iii) Role of Libraries in Promoting Research and Innovation in Google era By Dr. Jagdish Arora, Director, INFLIBNET Centre
 - iv) JSTOR: New Directions by Mr. John Lenahan, Associate Vice President, JSTOR

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

6.6.1.6.3. JSTOR India User's Forum, Tata Institute of Social Sciences, Mumbai, 7th October 2013

The JSTOR, in collaboration with the INFLIBNET Centre, Gandhinagar and Tata Institute of Social Sciences, Mumbai organized JSTOR India User's Forum on 7th October 2013 at Sir Dorabji Tata Memorial Library, TISS Mumbai. Dr. Satish Kanamadi, Acting Librarian, TISS Mumbai welcomed the invitees and participants during the inaugural session. The forum was inaugurated by Prof. S. Parasuraman, Director, Tata Institute of Social Sciences, Mumbai. Dr. Jagdish Arora, Director, INFLIBNET Centre thanked Tata Institute of Social Sciences, Mumbai, Dr. Satish Kanamadi and his colleagues for organizing JSTOR Forum at a short notice and extending their infrastructural facility. Mr. John Lenahan, Associate Vice President, JSTOR gave a brief introduction about the programme. Mr. Puttaraj, Assistant Librarian, TISS Mumbai extended warm vote of thanks to JSTOR, INFLIBNET Centre, authorities of TISS Mumbai and the participants at the end of inaugural session.

100 participants included 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:

- i) Web Scale Discovery Services By Dr. Daulat Jotwani, Librarian, Indian Institute of Technology, Bombay
- ii) Research Trends by Mr. John Lenahan, Associate Vice President, JSTOR
- iii) Role of Libraries in Promoting Research and Innovation in Google era By Dr. Jagdish Arora, Director, INFLIBNET Centre
- iv) JSTOR: New Directions by Mr. John Lenahan, Associate Vice President, JSTOR

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

6.6.2. SOUL Support Services

6.6.2.1. 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 2,832 across the country as per the details given in

Appendix VI. The SOUL Support Cell co-ordinates 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:

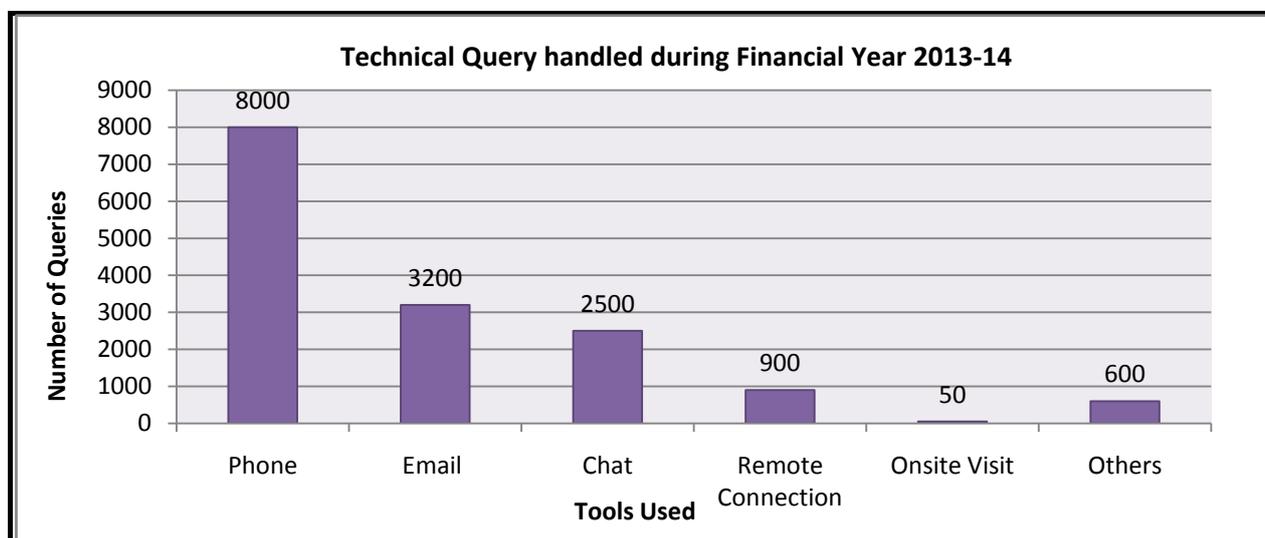


Fig. 15: SOUL Query Handled by SOUL Technical Assistants

Telephone Helpline: The Centre has extended a dedicated telephone line (079-223268300) 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.

Downloads: 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.

6.6.2.2. SOUL Regional Support Services

The Centre has recently appointed six SOUL Coordinators in different geographical regions of the country. Besides, the INFLIBNET Centre coordinates activity of maintenance and promotion of SOUL Software in the state of Gujarat and Rajasthan. Requisite numbers of technical staff are deployed for this purpose based on number of SOUL installations in the two states. Each SOUL Coordinator employs two to three technical assistants so as to provide proactive support to the SOUL users in their respective regions. 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 8.

| Name | Address / Phone No. / Email/ State |
|-------------------------------------|---|
| Prof. C. P. Vashishth | <i>Delhi, Uttaranchal & UP</i> 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 | <i>North Eastern Region</i> Dept of Library and Information Science, Guahati University, Guwahati- 781014, Assam. Mob. : 09435040402 Email: sksgu1@gmail.com |
| Dr. Dharamraj Kalyanrao Veer | <i>Maharashtra & Goa</i> University Librarian, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad University Campus, Aurangabad – 431004, Maharashtra. Mob.: 09423958150 Email: dk.veer@rediffmail.com |
| Mr. Rakesh Kumar Khare | <i>M.P. & Chhattisgarh</i> Govt. M.L.B. Girls PG (Auto) College, Bhopal- 462002, Madhya Pradesh. Mob. : 099265 35452 Email: orakesh16@yahoo.co.in |
| Mr. J. Laxma Reddy | <i>A.P., Karnataka, Pondicherry and Kerala</i> Lecturer in Library Science, Nagarjuna Government College (A), Nalagonda– 508 001, Andhra Pradesh. Mob. : 099081 15333, Email: clicngc@gmail.com |
| Mrs. Nalini A Raja | <i>Maharashtra and Goa</i> 302, Hari-Kripa, L.T.Road, Borivli (W), Mumbai - 400 092, Maharashtra. Mob.:09920790757 E-mail:nalinigg@gmail.com |
| Mr. H G Hosamani | <i>Gujarat and Rajasthan</i> 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 8: Names of SOUL Coordinators with their Contact Address

6.7. Consortia-based Subscription to E-resources

The INFLIBNET Centre has set-up two separate consortia, namely UGC-INFONET Digital Library Consortium and N-LIST (National Library and Information Services infrastructure for Scholarly Contents) 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 funding sources and economic models. A brief description of the two consortia is given below.

6.7.1. UGC-Infonet Digital Library Consortium

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 then 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 Internet 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 Internet Connectivity Programme. So far 208 member institutions including 14 National Law Schools/ Universities and 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 JCCC (Journal Custom Content for Consortium). The JCCC 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.

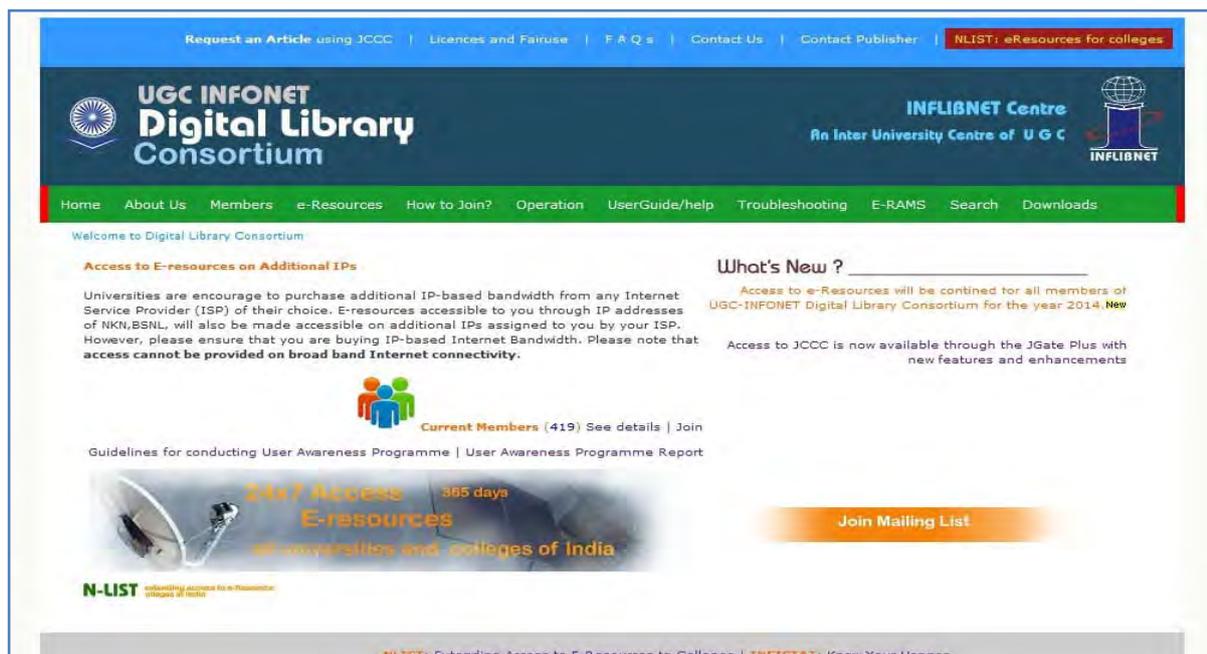


Fig. 16: Website of the UGC-Infonet Digital Library Consortium

6.7.1.1. 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 Indian universities and colleges;
- ▶▶ to extend the benefit of consortium to associate members of the Consortium;
- ▶▶ 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.

6.7.1.2. Governance of UGC-Infonet Digital Library Consortium

6.7.1.2.1. National Steering Committee

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

subscription rates of e-resources in its formative years. The current composition of the NSC is given in Appendix VII.

6.7.1.2.2. 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 VIII.

6.7.1.3. 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 17 years back files (from 1997 in most cases) and from volume 1 onwards in some cases (American Chemical Society, American Physical Society, Institute of Physics and JSTOR). The service is offered to 189 universities, 5 IUCs & other institutes and 14 national law schools/universities as core members under different phases as given in Appendix IX. The details of subscribed e-resources are given in Appendix X.

6.7.1.3.1. 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 scheme, 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 2014, 204 universities and other institutions have enrolled as associate members and are subscribing to different sets of resources.

6.7.1.4. 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 9 reflects consistent increase in usage from 2012 to 2013 for all e-resources. There is an overall increase of 25% usage in case of e-journals and 14.55% usage in case of the databases. The increase in usage is consistent for all e-journals except for Cambridge University Press (CUP) and Project Euclid. In cases of bibliographic databases, the decrease in usage for JCCC & Web of Science (WOS). However, the decrease in annual usage for JCCC is due to the platform change of the publisher and the usage could not be registered correctly for the last two months.

| Sl. No. | Publishers | No. of Downloads | | |
|-------------------|-------------------------------|-------------------|-------------------|--------------------|
| | | 2012 | 2013 | % Increase in 2013 |
| 1 | American Chemical Society | 15,63,717 | 18,27,793 | 16.89 |
| 2 | American Institute of Physics | 2,02,798 | 2,09,266 | 3.19 |
| 3 | American Physical Society | 2,23,527 | 2,27,820 | 1.92 |
| 4 | Annual Reviews | 80,127 | 96,135 | 19.98 |
| 5 | Blackwell-Wiley | 13,30,343 | 14,84,638 | 11.60 |
| 6 | Cambridge University Press | 92,629 | 91,260 | -1.48 |
| 7 | Elsevier | 49,65,569 | 58,33,386 | 17.48 |
| 8 | Emerald | 96,351 | 3,55,853 | 269.33 |
| 9 | Institute of Physics | 2,45,966 | 2,64,911 | 7.70 |
| 10 | JSTOR | 24,79,154 | 26,96,239 | 8.76 |
| 11 | Nature | 1,17,517 | 1,76,518 | 50.21 |
| 12 | Oxford University Press | 3,73,248 | 4,02,495 | 7.84 |
| 13 | Project Muse | 94,458 | 1,41,615 | 49.92 |
| 14 | Portland | 25,979 | 27,384 | 5.41 |
| 15 | Royal Society of Chemistry | 5,54,594 | 8,07,024 | 45.52 |
| 16 | SpringerLink | 13,49,891 | 24,16,446 | 79.01 |
| 17 | Taylor & Francis | 4,91,488 | 7,97,729 | 62.31 |
| 18 | Project Euclid | 6,284 | 1,474 | -76.54 |
| 19 | SIAM Journals | 5,354 | 14,180 | 164.85 |
| E-journals | | 142,98,994 | 178,72,166 | 24.99 |
| 1 | JCCC | 11,80,503 | 8,91,400 | -24.49 |
| 2 | MathSci | 1,48,965 | 3,73,276 | 150.58 |
| 3 | SciFinder | 3,50,640 | 7,29,331 | 108.00 |
| 4 | Web of Science | 2,59,148 | 2,27,344 | -12.27 |
| Databases | | 19,39,256 | 22,21,351 | 14.55 |

Table 9: Publisher wise Usage from 2012-2013

Comparative usage of e-resources in 2012 and 2013 is given below in Figure 17.

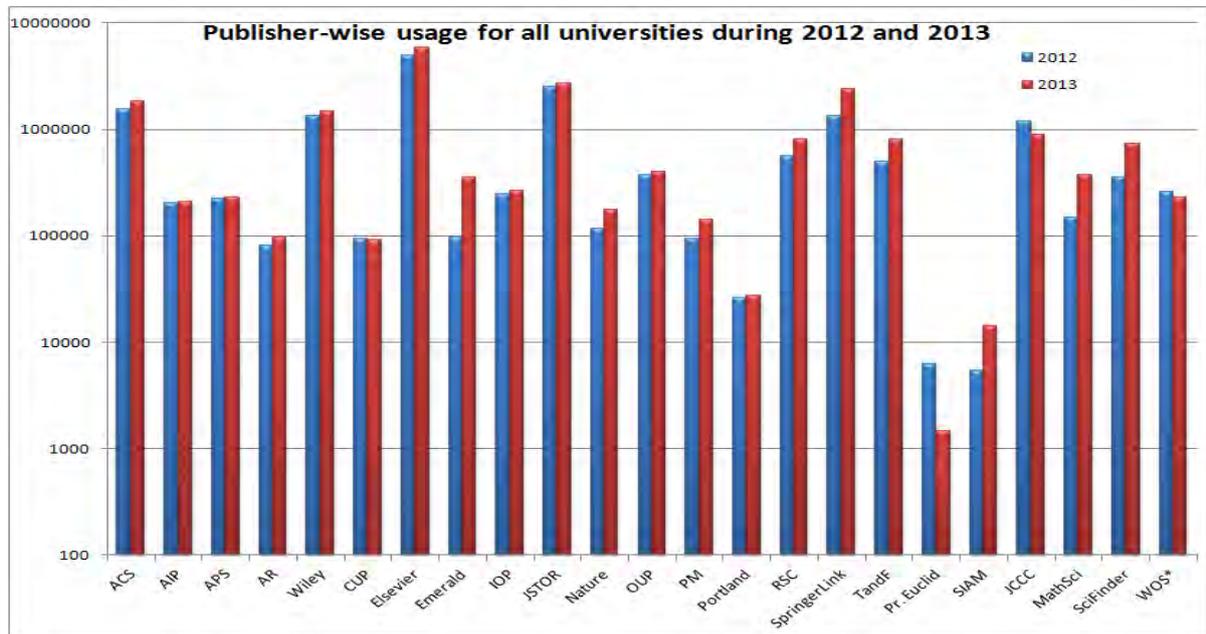


Fig. 17: Publisher-wise Usage of Resources for Year's 2012 and 2013

6.7.1.5. Economics of UGC-Infonet Digital Library Consortium

6.7.1.5.1. Annual Increase in Rates of Subscription

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

6.7.1.5.2. Intensity of Usage: Cost Recovery

"Cost Recovery" and "Average cost of article per download" can be used effectively to judge cost effectiveness of e-resources. 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 Association of Learned and Professional Society Publishers (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. 13,068.47 millions has been recovered as against the total cost incurred of Rs. 1,234.77 millions with Rs. 11,833.70 millions as the cost of articles downloaded in excess as shown in Figure 18.

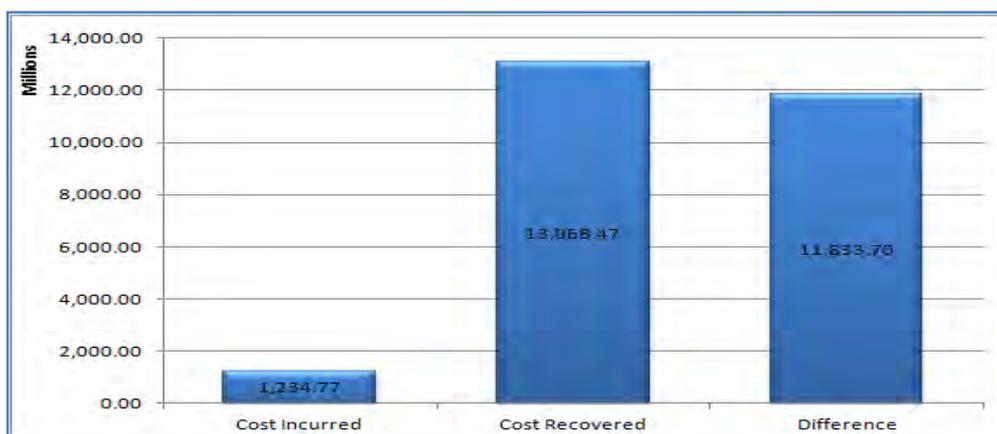


Fig. 18: Total Cost Recovery during 2013

The cost recovery factor for each resource is shown in Figure 19, that reflects that the cost recovery factor for Elsevier is highest followed by JSTOR & Springer.

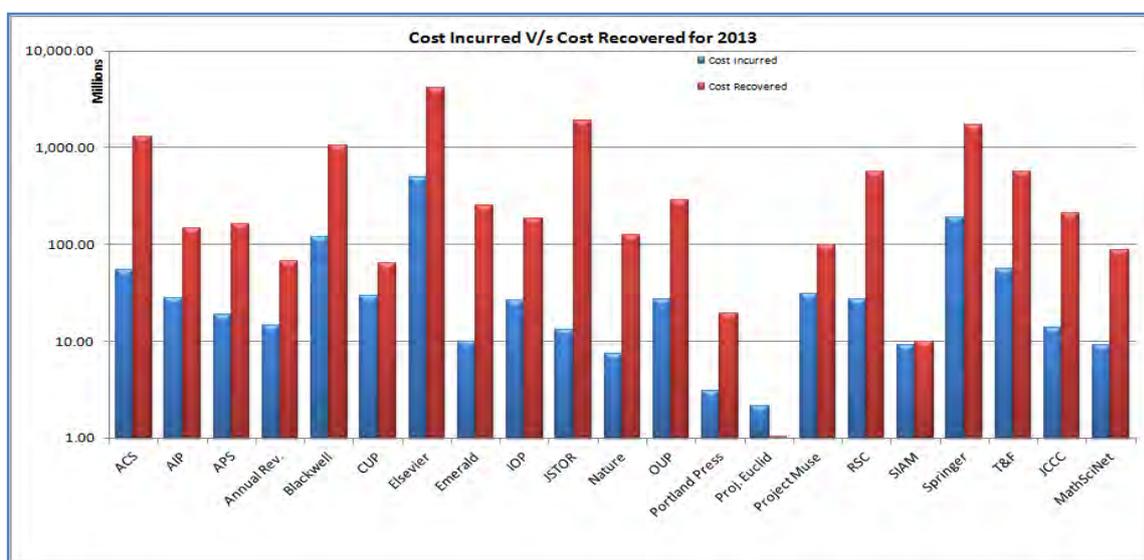


Fig. 19: Publisher-wise Cost Recovery during 2013

6.7.1.5.3. 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 20, given below, provide the cost per download of an article. The cost per download is lowest for JSTOR (US\$ 0.08) and highest for Project Euclid (US\$ 24.07), whereas the Consortium average is US\$1.09.

| Sl. No. | E-Resource | Average cost per Download (in US\$) |
|---------|-------------------------------|-------------------------------------|
| 1. | JSTOR | 0.08 |
| 2. | Emerald | 0.47 |
| 3. | American Chemical Society | 0.50 |
| 4. | Royal Society of Chemistry | 0.57 |
| 5. | Nature | 0.71 |
| 6. | Oxford University Press | 1.12 |
| 7. | Taylor & Francis | 1.17 |
| 8. | Springer | 1.31 |
| 9. | Blackwell-Wiley | 1.34 |
| 10. | American Physical Society | 1.40 |
| 11. | Elsevier | 1.42 |
| 12. | Institute of Physics | 1.66 |
| 13. | Portland | 1.89 |
| 14. | American Institute of Physics | 2.21 |
| 15. | Annual Review | 2.54 |
| 16. | Project Muse | 3.66 |
| 17. | Cambridge University Press | 5.42 |
| 18. | SIAM Journal | 10.60 |
| 19. | Project Euclid | 24.07 |
| | Consortium Average | 1.13 |

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. | JCCC | 0.26 |
| 2. | MathSciNet (AMS) | 0.41 |
| 3. | SciFinder Scholar | 1.07 |

Table 11: Average Cost of Bibliographic Database

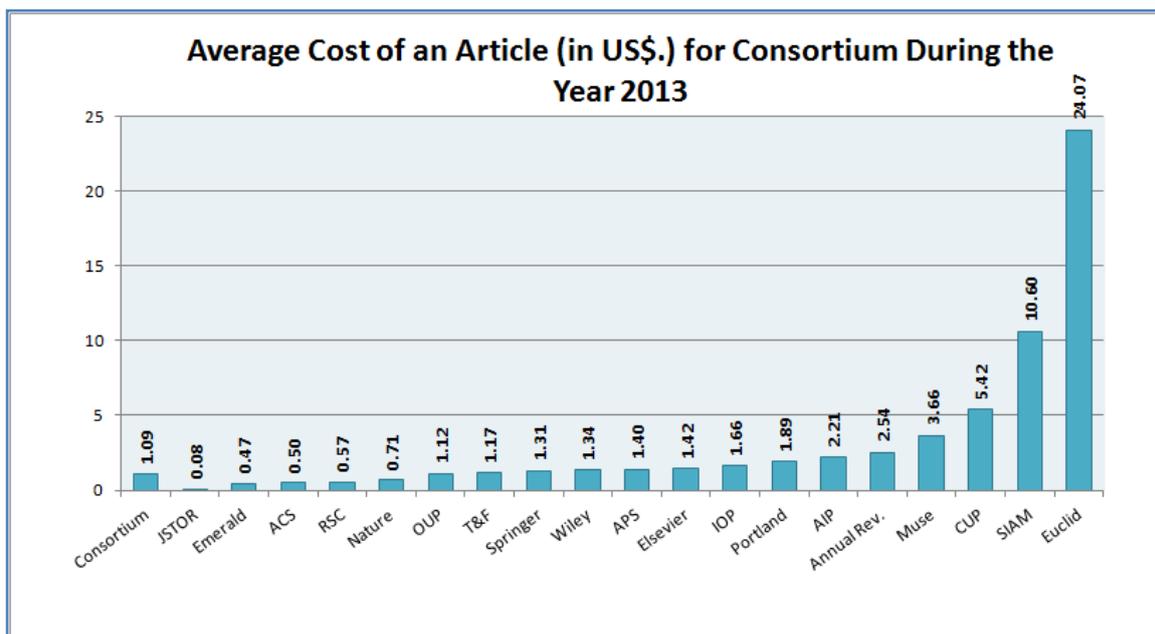


Fig. 20: Average Cost of an Article (in USD) for Consortium during the Year 2013

Over the last few years, the cost of an article has reduced drastically due to increase in usage of the resources. The bar chart given in figure 21 plots average cost per article for the e-journals over a period of 6 years, i.e. 2008-2013.

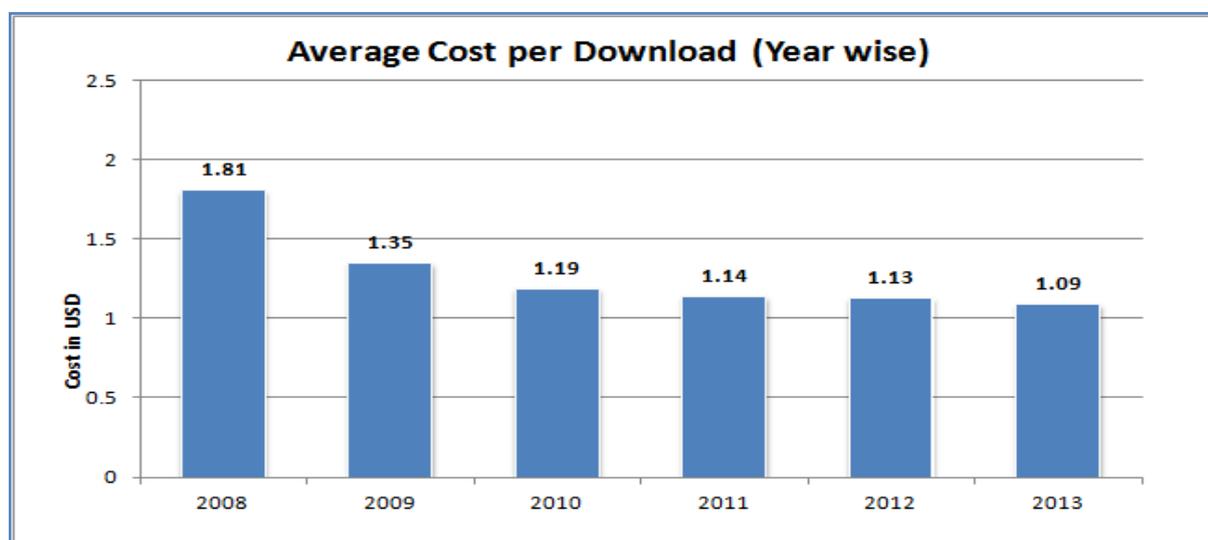


Fig. 21: Average Cost of per Download (in USD) for Consortium from 2008 to 2013

6.7.1.6. Document Delivery through J-Gate@UGC-INFONET

The J-Gate@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. It acts as a gateway to search 16,900+ journals including 4,089 open access journals, 8,500+ journals subscribed by the Consortium and 4,800+ journals subscribed

by the ILL Centres. The J-Gateplus 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, 3,182 ILL requests were received from member universities for the INFLIBNET Centre and 3,083 requests were fulfilled. The numbers of requests made by member universities are given in table 12 below:

| Sl. No. | Institution Name | §DDR-DU | *DDR-F | +DDR-P | #DDR-UF | Total |
|---------|---|-----------|--------------|----------|-----------|--------------|
| 1 | Annamalai University Library | 0 | 423 | 0 | 4 | 427 |
| 2 | Dr. B.R. Ambedkar Memorial Library - Acharya Nagarjuna University | 0 | 290 | 0 | 6 | 296 |
| 3 | Sree Sankaracharya University of Sanskrit | 0 | 272 | 0 | 1 | 273 |
| 4 | North Maharashtra University | 0 | 247 | 0 | 0 | 247 |
| 5 | Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya | 0 | 243 | 0 | 0 | 243 |
| 6 | Gulbarga University | 0 | 180 | 0 | 4 | 184 |
| 7 | Babasaheb Bhimrao Ambedkar University | 0 | 131 | 0 | 5 | 136 |
| 8 | Manonmaniam Sundaranar University | 0 | 124 | 0 | 7 | 131 |
| 9 | Gandhigram Rural University | 0 | 102 | 0 | 2 | 104 |
| 10 | Periyar University | 2 | 89 | 0 | 4 | 95 |
| 11 | Swami Ramanand Teerth Marathwada University | 8 | 75 | 0 | 1 | 84 |
| 12 | Tumkur University | 0 | 73 | 0 | 1 | 74 |
| 13 | Kannur University | 0 | 69 | 0 | 0 | 69 |
| 14 | Berhampur University | 0 | 65 | 0 | 1 | 66 |
| 15 | Banasthali University | 1 | 63 | 0 | 2 | 66 |
| 16 | Jiwaji University Gwalior | 1 | 53 | 0 | 3 | 57 |
| 17 | Mohanlal Sukhadia University | 0 | 52 | 0 | 0 | 52 |
| 18 | Karnatak University | 0 | 48 | 2 | 3 | 53 |
| 19 | Yashwantrao Chavan Maharashtra Open University | 0 | 45 | 0 | 4 | 49 |
| 20 | Tata Institute of Social Sciences | 0 | 38 | 0 | 3 | 41 |
| 21 | Other | 0 | 401 | 0 | 34 | 485 |
| | Total | 12 | 3,083 | 2 | 85 | 3,182 |

§ 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 7,131 requests were received by the 26 ILL Centres and INFLIBNET from all the member universities and 4,811 were fulfilled as per the details given below in table 13:

| Sl. No. | University Name | §DDR-DU | *DDR-F | +DDR-P | #DDR-UF | Total | % of fulfilled |
|---------|---|-----------|--------------|--------------|--------------|--------------|----------------|
| 1 | Aligarh Muslim University | 0 | 0 | 91 | 0 | 91 | 0.00 |
| 2 | Annamalai University | 0 | 147 | 37 | 8 | 192 | 76.56 |
| 3 | Assam University | 0 | 0 | 81 | 0 | 81 | 0.00 |
| 4 | Banaras Hindu University | 0 | 0 | 195 | 0 | 195 | 0.00 |
| 5 | Banasthali University | 1 | 203 | 0 | 29 | 233 | 87.12 |
| 6 | Bangalore University | 0 | 0 | 99 | 0 | 99 | 0.00 |
| 7 | Birla Institute of Technology and Science | 0 | 1 | 191 | 0 | 192 | 0.52 |
| 8 | Jadavpur University | 2 | 89 | 0 | 211 | 302 | 29.47 |
| 9 | Jawaharlal Nehru University | 0 | 0 | 129 | 0 | 129 | 0.00 |
| 10 | Kurukshetra University | 0 | 0 | 23 | 0 | 23 | 0.00 |
| 11 | Mangalore University | 0 | 0 | 1 | 0 | 1 | 0.00 |
| 12 | North Eastern Hill University | 0 | 3 | 38 | 3 | 44 | 6.82 |
| 13 | Pandit Ravishankar Shukla University | 0 | 0 | 36 | 0 | 36 | 0.00 |
| 14 | Panjab University | 0 | 93 | 11 | 16 | 120 | 77.50 |
| 15 | Pondicherry University | 0 | 43 | 0 | 47 | 90 | 47.78 |
| 16 | Punjabi University | 0 | 26 | 8 | 11 | 45 | 57.78 |
| 17 | Rashrasant Tukadoji Maharaj Nagpur University | 0 | 0 | 27 | 0 | 27 | 0.00 |
| 18 | Sardar Patel University | 0 | 0 | 25 | 0 | 25 | 0.00 |
| 19 | Tata Institute of Social Science | 2 | 492 | 0 | 89 | 583 | 84.39 |
| 20 | The Maharaja Sayajirao University | 0 | 35 | 12 | 34 | 81 | 43.21 |
| 21 | University of Calcutta | 0 | 28 | 25 | 96 | 149 | 18.79 |
| 22 | University of Delhi | 0 | 272 | 1 | 126 | 399 | 68.17 |
| 23 | University of Hyderabad | 0 | 82 | 28 | 85 | 195 | 42.05 |
| 24 | University of Madras | 0 | 0 | 14 | 0 | 14 | 0.00 |
| 25 | University of Pune | 5 | 190 | 0 | 380 | 575 | 33.04 |
| 26 | University of Rajasthan | 0 | 24 | 0 | 4 | 28 | 85.71 |
| 27 | INFLIBNET | 12 | 3,083 | 2 | 85 | 3,182 | 96.89 |
| | Total | 22 | 4,811 | 1,074 | 1,224 | 7,131 | 67.47 |

§ 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.

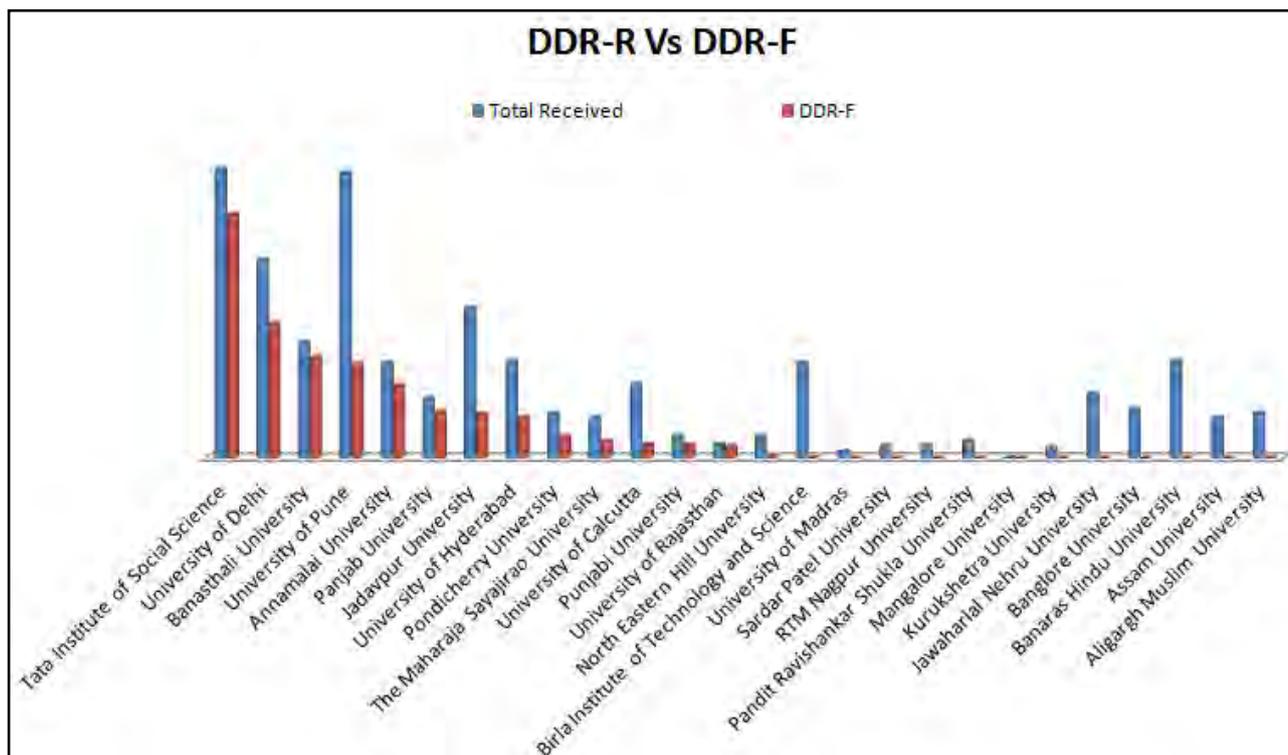


Fig. 22: Document Delivery Requests Received (DDR-R) V/s Full-filled (DDR-F) by 26 ILL Centres

6.7.1.7. UGC-INFONET University Forum, Elsevier, New Delhi, 5th August, 2013

The 4th UGC-INFONET University Forum was organized by the INFLIBNET Centre in collaboration with the Elsevier Science in New Delhi on 5th August 2013. The first University Forum was held in 2010 and second in 2011, witnessed the signing of an agreement between Elsevier & INFLIBNET Centre, which provided 60 universities in India with access to ScienceDirect. From there, the concept of the forum grew to encompass not only information access but also how libraries are gearing up to play an important and proactive role in the research workflow within the university system. The agenda of 4th University Forum was built around multiple objectives – to better understand the information needs of the academic community, share experiences in providing quality content and build capacity at universities across the globe, especially India and lastly share knowledge gained from experience on the impact that access to information has had on the research outcomes. The forum was attended by around 70 participants from member universities.

Dr. Jagdish Arora, Director, INFLIBNET Centre welcomed the delegates. In his welcome address, he thanked to Elsevier for its efforts to organize the forum annually. He mentioned that the current challenges that INFLIBNET is facing includes depreciating Indian Rupee, tax issues, etc. are affecting subscriptions and the increasing demand for content from a large number of universities in the country. Mr. Pawan Agarwal, Advisor Education, Planning Commission delivered keynote address. He shared as to how the Planning Commission is working towards transformation of Indian higher education despite facing severe challenges from bureaucracy and the economy. Elsevier's senior management was represented by Mr. Y S Chi, Director of Corporate Affairs, who presented his experiences of partnering

with government agencies around the world and the sense of keenness with which Elsevier looks for opportunities in India for such partnerships.

"India is one of the fastest growing markets in terms of research outputs – rocketing up by 18% between 2008 and 2012," said Mr. Saurabh Sharma, Regional Director for Research Solutions, Elsevier Science. He said that the University Forum is just one of the way of connecting with the academic research community.

6.7.1.8. Meeting of the ILL Centres of JCCC, Bangalore, 27th September 2013

The INFLIBNET Centre had identified 26 university libraries as ILL Centres to fulfil the Inter-Library Loan (ILL) requests of users affiliated to universities covered under UGC-INFONET Digital Library Consortium. The meeting of representatives of university libraries designated as ILL Centres was held in Bangalore on 27th September, 2013 to discuss and deliberate on new platform of JCCC@UGC-INFONET and its features. 16 university Librarians from designated ILL Centres attended the meeting. In addition, university librarians / their representatives from other member universities of consortium were also invited to attend the meeting.

Mr. Sanjay Grover, CEO, Informatics India gave welcome address followed by Mr. N. V. Sathyanarayana, Managing Director, Informatics (India) Ltd. who demonstrated the features of new JCCC platform and highlighted improvements over current platform. Demonstration on "administration and DDR fulfilment process" was given to the librarians to understand the functions of new platform. There was an open discussion for improving effectiveness of JCCC platform at the end of the session. The new version of JCCC will be launched from October onwards as declared in the meeting.

6.7.2. N-LIST (National Library and Information Services Infrastructure for Scholarly Content)

Jagdish Arora, Director
Ashok Kumar Raj, Scientist D (CS)
Kruti Trivedi, Scientist B (LS)
Dinesh Ranjan Pradhan, Scientist B (LS)
Saroja Kumar Panda, STA (LS)
Roma Asnani, STA (LS)
Jaynil Gandhi, Project Associate (CS)

The "National Library and Information Services Infrastructure for Scholarly Content (N-LIST)" has graduated from being a project funded by the Ministry of Human Resource Development under its National Mission on Education through ICT to a regular scheme of the UGC-INFONET Digital Library Consortium as its college component. The N-LIST, using a highly innovative access model, provides access to 6,328 e-journals and 97,333 e-books to all Govt. / Govt.-aided as well as non-aided colleges through a proxy server installed at the INFLIBNET Centre. Electronic resources subscribed under N-LIST programme covers all disciplines taught in colleges including arts & humanities, social sciences, physical

and chemical sciences, life sciences, computer sciences, political sciences, library and information science, law, business, mathematics, statistics, etc.

Fig. 23: Website of the National Library and Information Services Infrastructure for Scholarly Content (N-LIST)

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

6.7.2.1. Current Status

A total number of 3,686 colleges have registered themselves under the N-LIST as on March 31, 2014 including 3,336 eligible colleges that are getting access to resources subscribed under the N-LIST programme. Log-in IDs and passwords have been issued to more than 5,73,955 faculty members, students and researchers after obtaining list of authorized users from these 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 advertisement in newspaper as well as by organizing training and orientation programmes through affiliating universities and regional offices of the UGC.

6.7.2.2. Increase in Number of Colleges

Figure 24 given below reflects consistent increase in number of colleges who joined the N-LIST Programme from January 2011 to March 2014. The number of colleges that have joined the N-LIST Programme has increased from 1,116 in January 2011 to 3,336 by the end of March 2014.

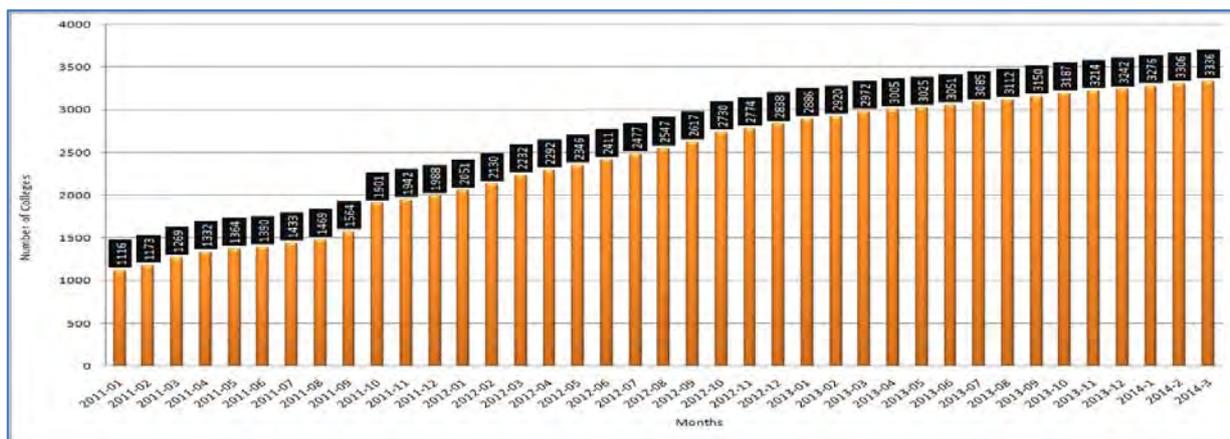


Fig. 24: Increase in Registration of Colleges

6.7.2.3. Electronic Resources Subscribed under the N-LIST Programme

6.7.2.3.1. 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 mentioned 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

6.7.2.3.2. 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 in table 15 given below.

| 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 | Mylibrary-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

6.7.2.4. Implementation Methodology

E-resources subscribed under 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 using IP filtering cannot be implemented for colleges. Moreover, most of the publishers are reluctant to handle authentication of 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 authentication mechanism deployed at the INFLIBNET Centre.

6.7.2.5. 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 potentiala for growth. These factors are discussed below in detail.

6.7.2.6. Analysis of Usage

It is important to ensure that the resources offered to the colleges are being utilized 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.

6.7.2.6.1. 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 2013-2014. It can be observed that JSTOR is highly used resource followed by Royal Society of Chemistry and H W Wilson. 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 2013-2014

6.7.2.6.2. Publisher wise Usage of E-Books

Figure 26, given below, shows publisher wise usage of ebooks during the financial year 2013 - 2014. It can be observed that Ebrary is highly used resource followed by McGraw Hill-MyiLibrary and Springer e-books.

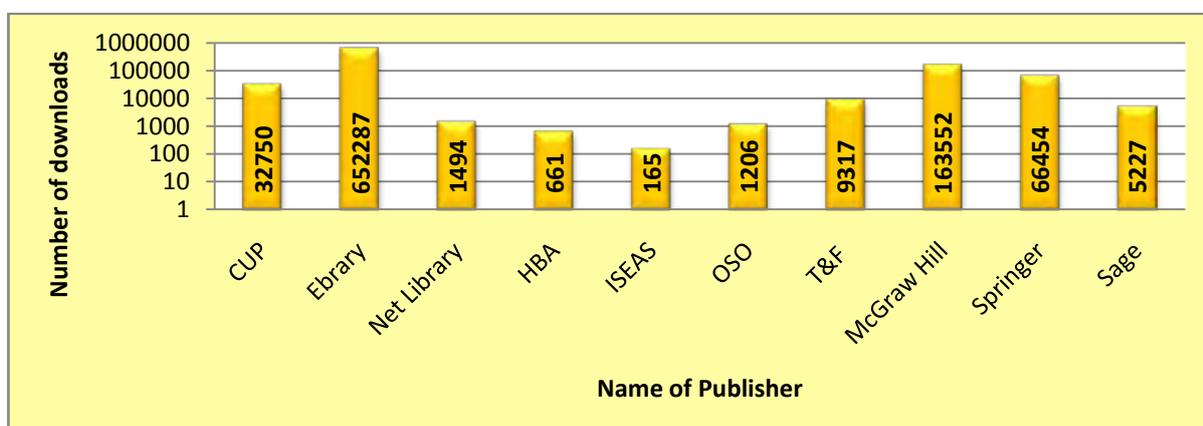


Fig.26: Publisher wise Usage of E-Books 2013-2014

6.7.2.6.3. Month wise Usage of E-Resources

Figure 27 given below reflects month wise usage of e-journals and e-books for the period April 2013 to March 2014.

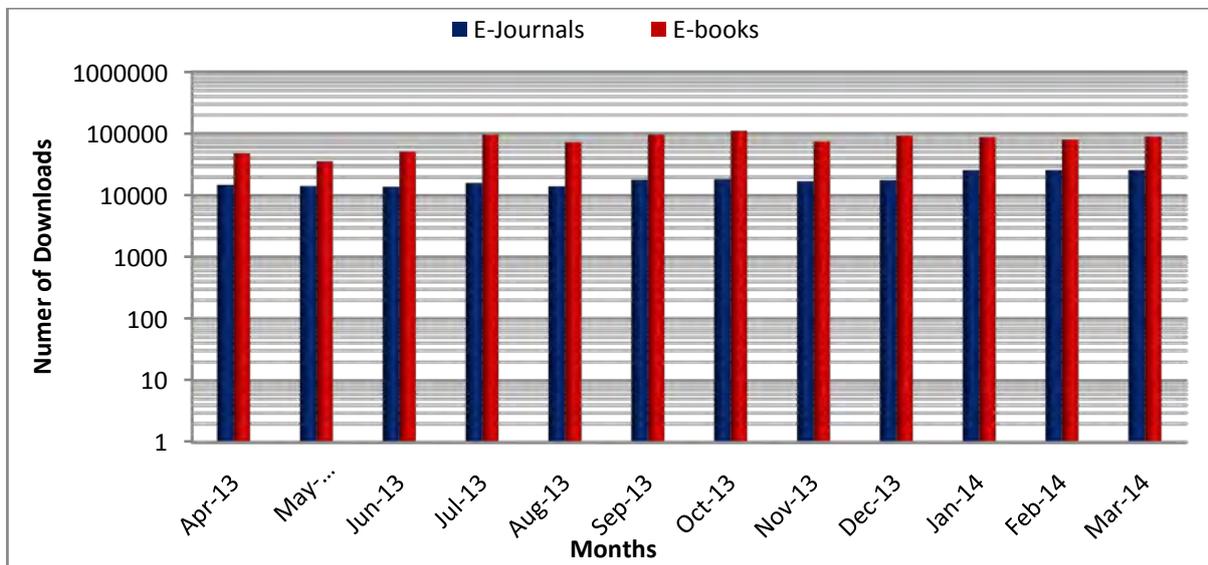


Fig.27: Month wise Usage of E-resources for 2013-2014

6.7.2.6.4. 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 10,650 monthly users from 3,336 member colleges.

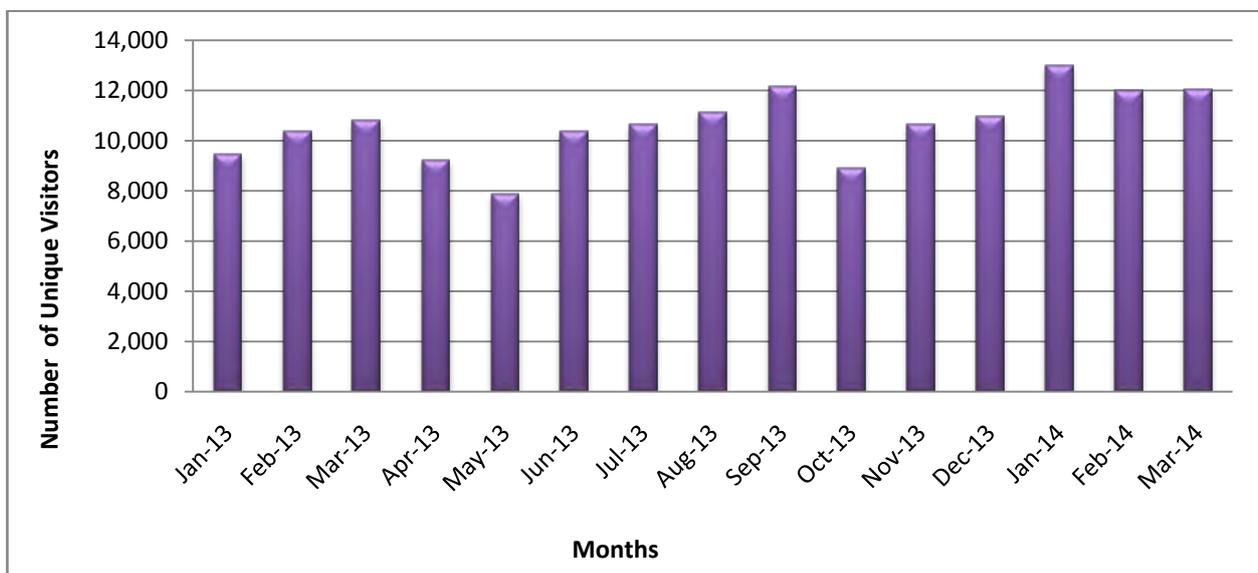


Fig. 28: Month wise Unique Visitors of the N-LIST Programme 2013 –2014

6.7.2.6.5. Month wise Pages Viewed

A total number of 81,99,613 pages were viewed by the user 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.

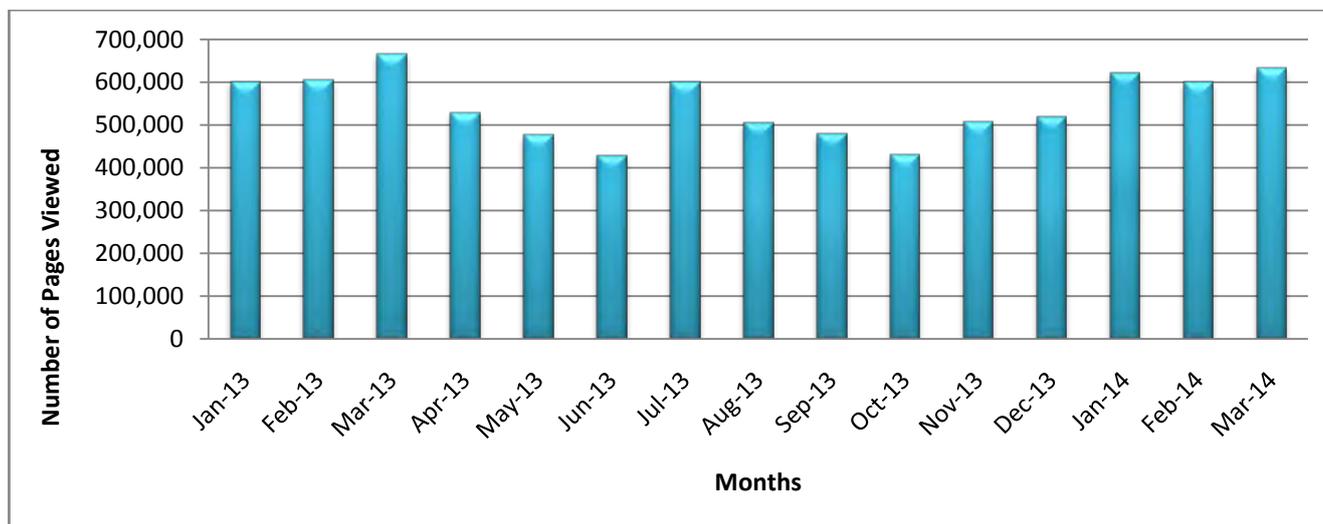


Fig. 29: Month wise Pages Viewed 2013 -2014

6.7.2.7. 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.

6.7.2.7.1. 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 is evident from the figure 30 given below that 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 2013 amounts to Rs. 74.76 crores as against the total expenditure of Rs. 2.09 crores with Rs. 72.67 crores as the cost of articles downloaded in excess.



Fig.30: Cost Recovery Factor of e-Journals Subscribed under the N-LIST Programme for 2013

6.7.2.7.2. 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 set 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 N-LIST Programme. As such, a total number of 16 subscriptions (on prorated basis) were paid for 3,336 colleges during the financial year under report.

6.7.2.7.3. 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 national savings of Rs. 27,314.80 crores considering the fact that the same sets of resources on list price would have cost Rs. 27,340.98 crores as against Rs. 26.17 crores spent under the N-LIST programme for the year 2013.

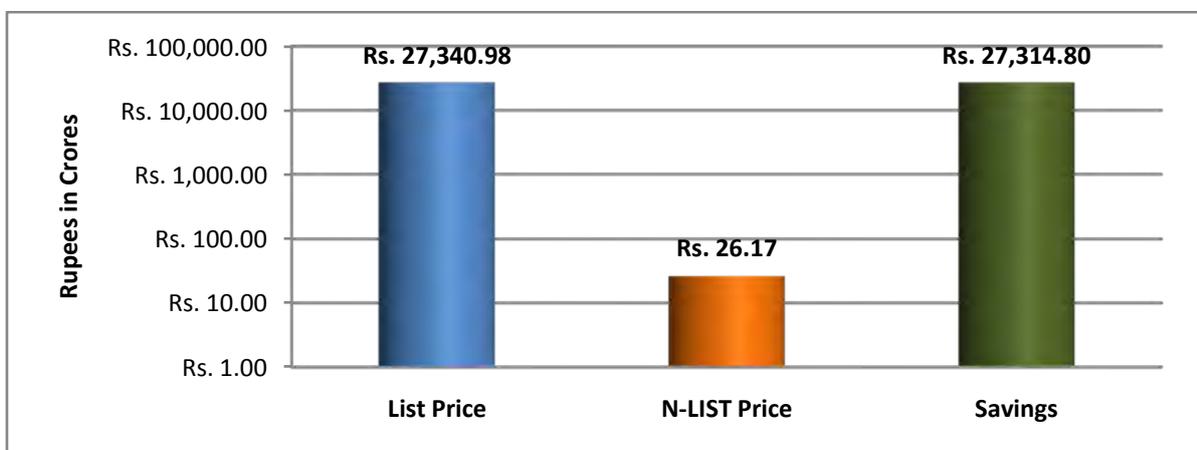


Fig. 31: Cost Avoidance 2013

6.7.2.7.4. 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 from 10 to 15%.

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

6.7.2.8.1. Average Cost of 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 such, average cost of a single journal per college computes to Rs. 3.42 in the year 2013 when only 3,336 colleges were enrolled for the scheme as shown in table 16.

| E-resources | No of Colleges | No. of Journals | Price per College per Title (in Rupees) |
|--|----------------|-----------------|---|
| American Inst. Physics and American Physical Society | 1,600 | 28 | 278.17 |
| Annual Reviews | 3,000 | 33 | 36.79 |
| Cambridge Univ. Press | 3,000 | 224 | 17.70 |
| Indian Journals | 3,000 | 186 | 10.75 |
| Institute of Physics | 2,000 | 46 | 40.73 |
| JSTOR | 3,000 | 2,500 | 0.47 |
| Oxford Univ. Press | 3,000 | 206 | 10.75 |
| Royal Society of Chemistry | 1,600 | 29 | 118.01 |
| HW Wilson | 3,000 | 3,075 | 0.96 |
| Economic & Political Weekly | 3,000 | 1 | 900.00 |
| Total | 3,000 | 6,328 | 3.42 |

Table 16: Average Cost of Journals per College

6.7.2.8.2. Average Cost of E-books

Most of the e-books under the N-LIST programme is purchased for all existing 3,336 colleges on "one-time purchase and perpetual access basis" except Ebrary which is subscribed on annual subscription basis. As shown in table 17, average cost per book per college varies from Rs. 0.10 in case of Ebrary to Rs. 15.99 in case of Sage eBooks.

| E-resources | No of Colleges | No. of Books | Price per College per Title (in Rupees) |
|-----------------|----------------|--------------|---|
| E-brary | 3000 | 83,024 | 0.10 |
| OSO | 3000 | 1,402 | 3.22 |
| Springer ebook | 3000 | 2,300 | 8.41 |
| T&F ebook | 3000 | 1,800 | 6.79 |
| CUP ebook | 3000 | 1,800 | 2.93 |
| McGraw Hill | 3000 | 1,124 | 0.40 |
| Hindustan ebook | 3000 | 65 | 1.67 |
| ISAES ebook | 3000 | 382 | 1.62 |
| Sage ebook | 3000 | 1,000 | 15.99 |
| Total | 3000 | | 6.76 |

Table 17: Average Cost of E-books

6.7.2.9. Honours and Awards

The N-LIST Programme was honoured with three awards in 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 for the N-LIST project.

6.8. Open Access R & D Group

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 in 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 R & D Group at the INFLIBNET Centre is working towards spread of open access movement in universities and institutions of higher learning. The Centre continued the initiatives that were started in the previous years:

6.8.1. 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 (10) new requests for hosting journals on OJAS platform out of which 04 are in review process, 04 rejected and 02 selected for the hosting on OJAS Platform.



Fig. 32: Open Journal Access System (OJAS)

Figure 32 depicts screenshot of Open Journal Access System (OJAS) interface. The following fourteen 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; and
 - ▶▶ Trends in Information Management (TRIM), published by University of Kashmir, Srinagar.

6.8.2. 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)
Ramiz Malek, Sr. Project Officer (CS)
Priti Sharma, Project Officer (LS)
Archita Muchhadia, Project Officer (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.

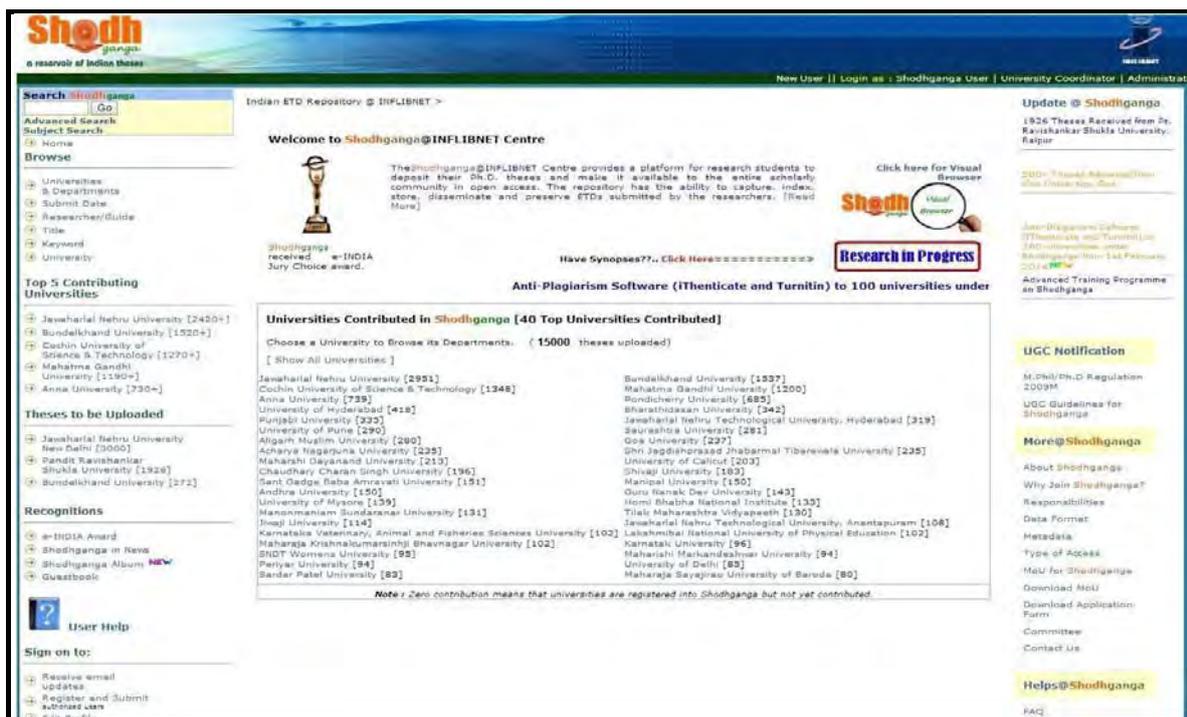


Fig.33: Shodhganga Website

Organisation of theses in Shodhganga reflects 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 and help relevant 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.

Considering the fact that 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 version 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 submitting electronic version of their theses into the repository on voluntary basis. As on 31st March, 2014, researchers from 172 universities have submitted their theses into the repository. 163 universities have signed MoU with the INFLIBNET Centre, 52 universities who signed MoU with INFLIBNET Centre during the current year are given in

Appendix XI. Many universities without signing MoU have also started contributing theses into Shodhganga repository on receipt of the UGC Notification. A list of 62 such universities who contributed soft copies of their theses into Shodhganga without signing MoU is given in Appendix XII. Total number of theses submitted into the repository has grown to 15,000.

The INFLIBNET Centre organises Awareness programmes in universities to popularize Shodhganga amongst students and researchers. During the year under report, the following seven "User Awareness Programmes on Shodhganga" were organized by the Universities in collaboration with the INFLIBNET Centre as shown in table 18 and Three days Advanced Training Programme on Shodhganga was organised at INFLIBNET Centre, Gandhinagar from 29th to 31st January, 2014. User Awareness Programmes are described in detail at 6.6.1.5.

| Sl. No. | University Name | Dates of Programmes |
|---------|--|---|
| 1 | Manonmaniam Sundaranar University, Tirunelveli | 13 th -14 th May 2013 |
| 2 | S.N.D.T. Women's University, Mumbai | 25 th June 2013 |
| 3 | Hemchandracharya North Gujarat University, Patan | 23 rd August 2013 |
| 4 | Jamia Hamdard University, New Delhi | 5 th December 2014 |
| 5 | Aligarh Muslim University, Aligarh | 7 th December 2014 |
| 6 | University of Mysore, Mysore | 18 th February 2014 |

Table 18: User Awareness Program for Shodhganga

6.8.2.1. 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 Talwar 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.

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

The Scheme and the recommendation of the committee were approved by the UGC. 37 universities that are signatory to MoU with INFLIBNET Centre on Shodhganga, has received funds from UGC for setting up of ETD lab and digitisation of old theses. During the period under report, Rs. 6.96 crores grant was released to 37 universities. In addition, INFLIBNET Centre has recommended release of total grant of Rs. 6.09 crores to 42 universities given below in table 19 during the year under report.

| Sl. No | Date of Recommendation | No. of University | Amount |
|--------|------------------------|-------------------|--------------------|
| 1 | 25th October, 2012 | 11 | 1,56,98,350 |
| 2 | 6th June, 2013 | 10 | 1,01,46,250 |
| 3 | 20th August, 2013 | 12 | 1,90,77,600 |
| 4 | 28th March, 2014 | 9 | 1,59,84,600 |
| | Total Amount | 42 | 6,09,06,800 |

Table 19: Grants recommended to Universities

6.8.2.2. Semantic Visual Browser

Shodhganga provides a semantic visual browser facilitating users to browse records available in Shodhganga semantically with associated fields. Major fields like title (works), authors, guides, universities and keywords are linked for visual browsing. The “associative browsing” is attempted to devoid any dependency on the predefined hypertext link instead of following the predefined routes mapped out by hyperlinks. Semantic web browsing allows users to navigate between the topics, works, researchers / guides, universities that interest them. User can enter a search term in the box given in the browser and visual links are created for the display with the fields mentioned above, shown in Figure 34.

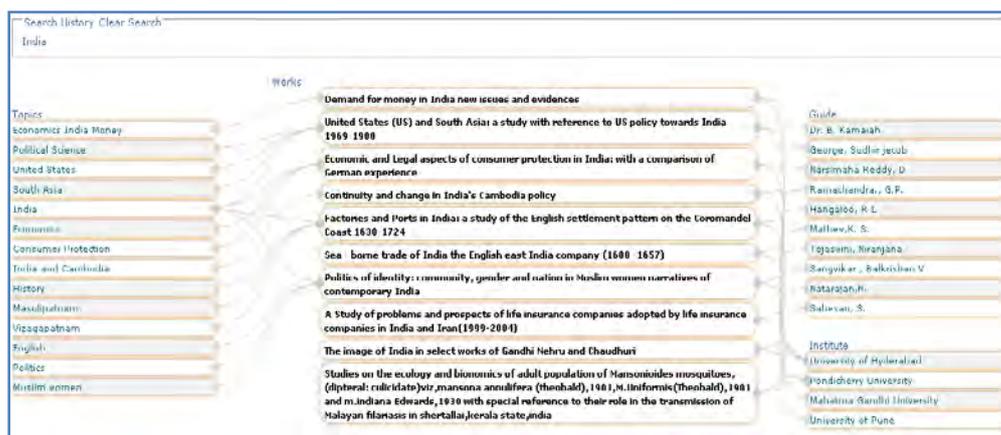


Fig. 34: Visual Browser for Shodhganga

6.8.2.3. Subject Search

Subject search interface design is based upon UNESCO’s SKOS (Simple Knowledge Organization System), LOC’s LCSH (Library of Congress Subject Headings) and other thesaurus. Each subject is given in maximum of five levels of hierarchy depending upon the subjects. 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. The search can be restricted to micro level (four levels down) for more precision on the subject domain. Figure 35 depicts Shodhganga’s subject search interface.

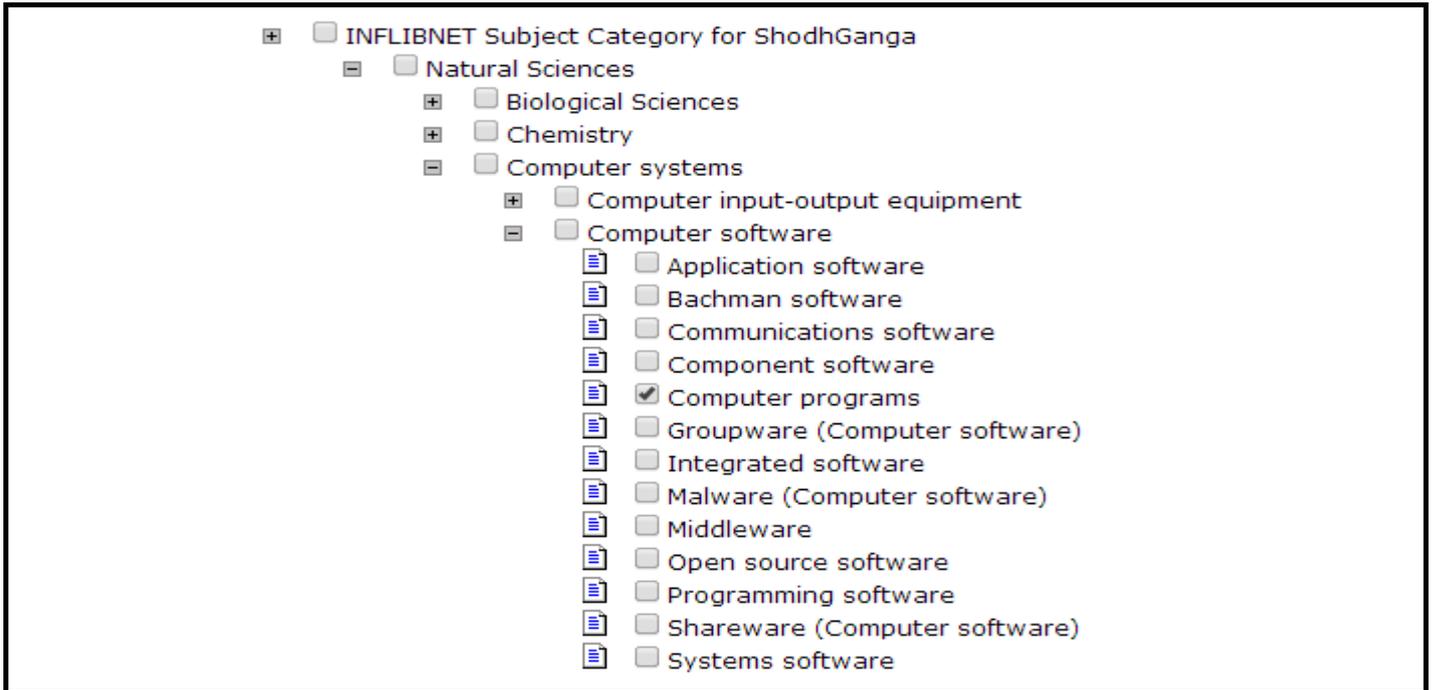


Fig. 35: Shodhganga's subject search interface

6.8.2.4. Usage Statistics

INFLIBNET also monitors the usage of these and use it 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 year under the report, are shown below in Figure 36.

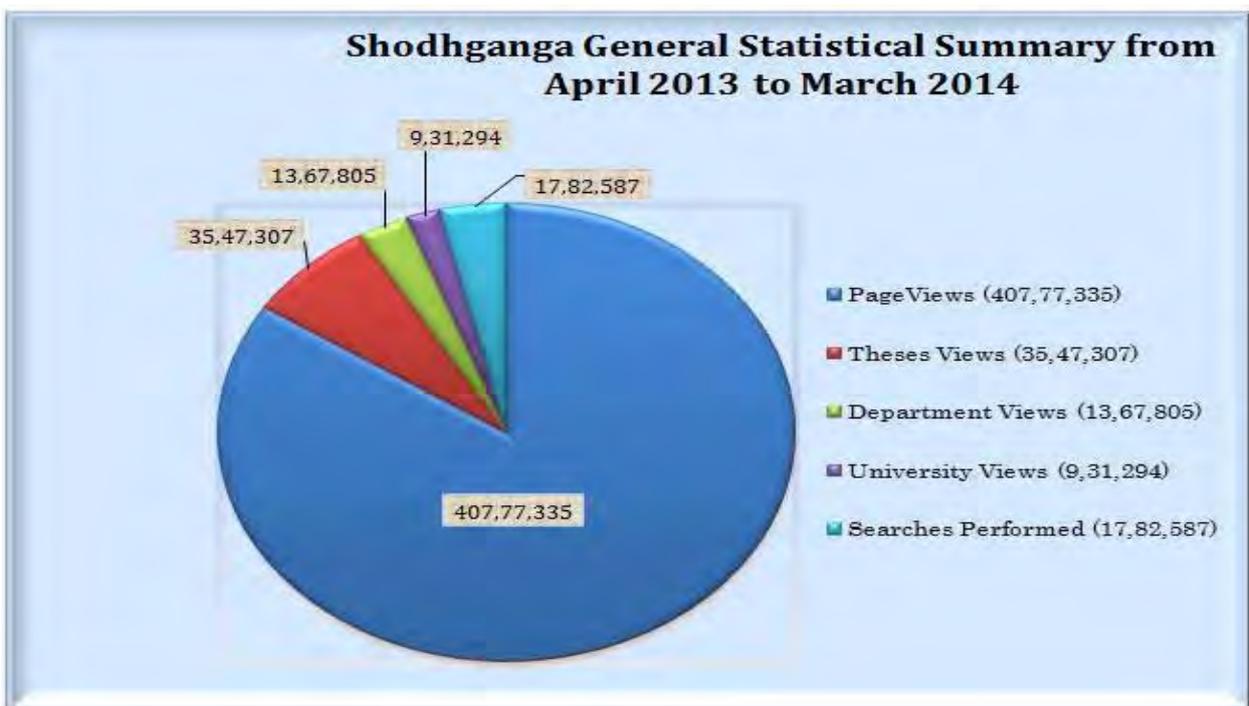


Fig. 36: Shodhganga General Statistical Summary

Top ten viewed theses are given below in Table 20.

| Sl. No. | Item/Handle | No. of views |
|---------|---|--------------|
| 1 | A comparative study of nationalized and private banks with reference to customer relation management (10603/2350) | 6979 |
| 2 | History of English literature in Pre-Post Independence India: a critical evaluation (10603/4901) | 5332 |
| 3 | Mergers and acquisitions in the Indian banking sector: an analytical study (10603/4516) | 5084 |
| 4 | Role of merchant banking in managing public issues: an empirical study with special reference to post 1997 era (10603/3566) | 4781 |
| 5 | Impact of dividend policy on shareholders' value: a study of Indian firms (10603/2432) | 4836 |
| 6 | Customer acceptance of internet shopping in India: impact of shopping orientations, knowledge and security (10603/2695) | 4739 |
| 7 | Library and information science education in north east region: a critical study (10603/1205) | 4730 |
| 8 | Discretionary powers of the governor under the constitution of India (10603/3695) | 4435 |
| 9 | A study on self help groups in Tirunelveli district (10603/672) | 4226 |
| 10 | Impact of e-banking on operational performance and service quality of banking sector in India (10603/3563) | 3985 |

Table 20: List of Top 10 Theses Viewed till 31st March, 2014

6.7.2.5. Selection of Anti-Plagiarism Detection Software

The INFLIBNET Centre received the grant from UGC to provide access to plagiarism detection software to the universities that are eligible for receiving grants from UGC. The Centre has constituted a subcommittee for procuring plagiarism detection software in June 2013. The Committee finalized the tender specifications along with formats of bids, technical specifications, financial bid format, general terms and conditions etc. which was floated on July, 2013 on INFLIBNET website as well as in the national newspapers. Bids were received from two vendors for three products i.e. Ephorus, iThenticate and Turnitin. On request of the INFLIBNET Centre, access to plagiarism detection software was given on trial for a period of 3 months for evaluating the features of all Software.

The software was evaluated based on the features like permit site license for unlimited users in a university, off line content checking, on line content checking, plagiarism check with maximum number of authentic on-line sources, integration with popular search engine e.g. Google, Google Scholar, OAlster, Scirus, Bing and Altavista, Minimum test time, Native PDF support without 3rd party software, Multiple formats support like HTML, MS Word, Word Perfect, Post Script, Portable, Document, Format

(.PDF), Rich Text, Plain Text, state-of-art advanced report viewing interface, source tracing mechanism, on-the-fly original to source comparison with dynamic statistics, plagiarism chart generation, references automatic detection, multiple documents processing, seamless integration with the existing CMS/LMS and coverage of large number of databases for comparison.

Based on evaluation, the Committee recommended that Turnitin/iThenticate is the most used product in Indian education institutions as well as world-ranked universities. Final prices were negotiated with the vendor for subscription to iThenticate and Turnitin for a period of one year with trial access for three months for 100 universities. 10 universities were already subscribing to these products were not included. Appendix XIII provides list of 90 universities having access to plagiarism detection software. Provision is included to add a block of 10 additional universities as and when they sign MoU.

6.8.3. Shodhgangotri: A Repository of Synopsis submitted to Indian Universities for Registration in Ph.D. Programme

Under this new initiative, research scholars / research supervisors in universities could deposit 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 theses 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 and 1,733 approved synopses submitted into the repository till date.

6.8.4. InfoPort: A Subject Gateway to Indian Scholarly Internet Resources

Yatrik Patel, Scientist D (CS)
Swapnil Patel, Scientist B (CS)
Roma Asnani, STA (LS)

INFOPORT: INFLIBNET Subject Gateway for Indian Electronic Resources is designed to facilitate entry of Internet resources 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 1,750 e-resources.

6.9. Web Services R & D Group

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. 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 Group 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 Enterprise Server 4.0, Fedora 8.0/9.0

Open Source Software: phpChat, MediaWiki, phpBB, Dspace and WordPress

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

Ashok Kumar Raj, Scientist D (CS)

The Centre maintains comprehensive Websites in English and Hindi as shown in figure 37. 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 Web site. 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. 37: INFLIBNET's Website

The Centre is in the process of developing a new and comprehensive database-driven website that fetches all information from databases.

6.9.2. Intranet (<http://192.168.1.244/intranet/>; for INFLIBNET Staff Only)

A separate Intranet website is maintained for the internal staff of the Centre as shown in Figure 38. The web site provides detailed information including:

- ▶▶ 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.

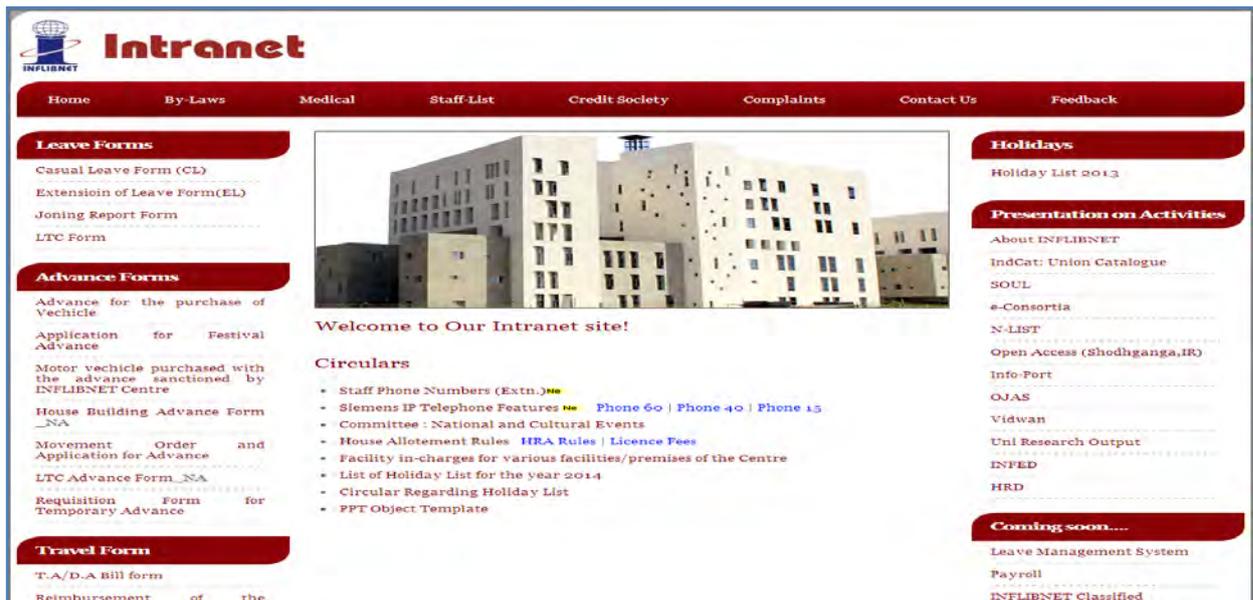


Fig.38: INTRANET Website

6.9.3. 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 mentioned below. 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.

6.10. Shibboleth based Access Management System

Jagdish Arora, Director
Yatrik Patel, Scientist D (CS)
Ashok Raj, 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. Centre is also planning to shift entire federated access management system to external web hosting provider for better stability and access.

6.11. Bibliometric Studies Group

Jagdish Arora, Director
Kruti Trivedi, Scientist B (LS)

The Centre has set up a Bibliometric Group to study the impact of access to e-resources on research productivity in universities in India. The Group has developed research profiles of 50 member universities, the profiles of remaining universities are being developed. These profiles would include research output of a university, annual and cumulative growth of research publications over a period of few 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. Currently, Web of Science is being used as a source for primary data. Later, other bibliographic and citations tools would also be used.

6.12. INFLIBNET Virtual Classroom

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

During the year under report, INFLIBNET Centre has started new initiative called INFLIBNET Virtual Classroom. The Centre is providing online training to academic users by delivering online lectures through A-VIEW classroom software. The main objective of INFLIBNET Virtual Classroom is that the participants or lecturer need not to present physically in classroom, they can attend the session while sitting on their premises. INFLIBNET Centre interacts 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 9 lectures on different modules of SOUL software and different activities of INFLIBNET Centre given below in table 21. Lectures may be arranged based on demand from the user community.

| Sl. No. | Date | Lecture Topic |
|---------|---------------------------------|--|
| 1 | 28 th June 2013 | INFLIBNET's projects and Activities Overview |
| 2 | 18 th July 2013 | INFLIBNET's projects and Activities Overview |
| 3 | 2 nd August 2013 | SOUL Software Overview & Features |
| 4 | 12 th September 2013 | SOUL 2.0 - Administration Module |
| 5 | 14 th November 2013 | SOUL 2.0 - Acquisition Module |
| 6 | 19 th December 2013 | Shodhganga & Shodhgangotri |
| 7 | 22 nd January 2014 | SOUL 2.0 - Catalogue & OPAC Module |
| 8 | 7 th March 2014 | IndCat: Union Catalogue of Indian Universities |
| 9 | 27 th March 2014 | SOUL 2.0 - Circulation Module |

Table 21: Lectures Conducted on various Services & Activities of INFLIBNET Centre

7. Central Facilities

7.1. 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 1,552 books and 100 print and online journals and magazines. Besides, the Centre, as the coordinating agency for the Consortium, gets complementary access to more than 8,500 electronic journals and 11 bibliographic databases subscribed under the UGC-Infonet Digital Library Consortium. The collection of the library is available online through the web OPAC at <http://library.inflibnet.ac.in>.



Fig.39: 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.

7.1.1. 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

7.1.2. 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 monitoring 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.

7.1.3. IR @ INFLIBNET (<http://ir.inflibnet.ac.in:8080/dxml/>)

The Centre has established an institutional repository called IR@INFLIBNET using DSpace, open source software accessible at <http://ir.inflibnet.ac.in:8080/dxml/>. 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 1,328 full-text articles.

7.1.4. 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

7.2. New ICT Infrastructure@INFLIBNET Centre

The INFLIBNET Centre designed and planned the ICT infrastructure based on the requirements and objectives of the Centre in the new building. In order to get competitive price, all IT related components are integrated and purchase order was placed with System Integrator, namely M/s. Unify Enterprise communication Pvt. Ltd formerly M/s. Siemens Enterprise Communications for effective integration work for passive and active state-of-the-art low voltage infrastructure solution for the INFLIBNET Centre's new building at Infocity, Gandhinagar. The solution includes layer 3 core switching with virtualisation and 40G/100G ready network with POE+ edge switches along with 10G uplink, IP telephony

with high and mid range of IP phones, surveillance system, boardroom solutions, public addressing system & AV solution, high resolution video conferencing solution, state-of-the-art auditorium, visitor management system, dedicated and sophisticated Data Centre with precision AC, CAT 7A cabling with OM4/OM2 Grade Fibre, Building Management System (BMS) with automated fire detection, fire suppression, access control, biometric access control, sophisticated UTM (Unified Thread Management System) etc..

7.2.1. Servers, Desktops and Laptops

Dedicated and advanced modular design for rack mounted blade servers are used in the Centre for various services in order to minimize the use of physical space and energy. The INFLIBNET Centre uses HP Blade System C 3000 Enclosure with 8 HP Proliant BL 460c G7 blade servers for hosting Web Services, INFLIBNET website, Shodhganga, OJAS, N-LIST, InfoPort, e-PG Pathshala, IndCat, DNS server, Intranet server, etc.

IBM Blade Centre S chassis with 6 blade servers is used for Web co-location services at BSNL, which host mirror sites of INFLIBNET Centre for the services such as UGC website, N-LIST Proxy Server, Online UGC Scholarship scheme and other important services. Moreover, tower servers and 1U servers are used for testing the software code by various divisions before final deployment.



Fig.40: HP Blade Server C3000 & IBM Blade S Chassis S

There are about 120 desktop PCs for scientists and staff in office for the computing needs. About 30 laptops are issued to scientists and senior staff. The desktops are connected to LAN with its 40G ready network which is getting Internet access from 1 Gigabits NKN network. Work stations are also given to various division for software development. Based on the requirements, peripheral devices such as printers, scanners, fax, modem, external drives, back up devices etc. are also provided.

7.2.2. State-of-the-Art Data Centre

All the servers, devices and computers are placed in a dedicated, sophisticated and protected environment called Data Centre in INFLIBNET Centre. To define uptime of data centre, Tier-3 standardized methodology is followed for designing to provide optimum performance, feasible

investment and ROI (return on investment). Data centre at INFLIBNET Centre is designed as the most robust setup and less prone to failures and also to host mission critical servers and computer systems, with fully redundant subsystems, wherever possible, such as cooling, network links, storage, power etc. and compartmentalized security zones controlled by biometric access controls methods. All components are fully fault-tolerant including uplinks, storage, chillers, HVAC systems, servers etc. HT redundancy is further required to make it fully tier-3 standard for the data centre. The deployment diagram for the Data Centre is given in figure 41.

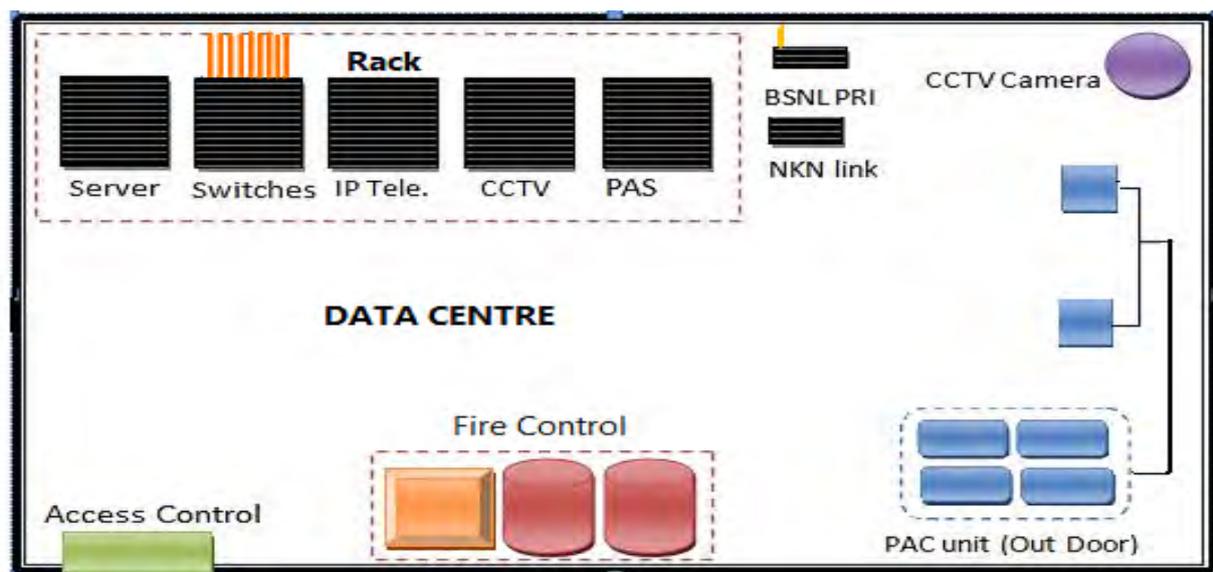


Fig. 41: Data Centre

7.2.3. Network Switching and Cabling

The whole network in the INFLIBNET Centre is centralised on a core 7U switch L₃ (i.e. CISCO NEXUS 7004) with virtualisation to manage its network operations. Core switch and edge switches distribution are shown below in figure 42. Layer 2 based edge switches (ie. CISCO Catalyst 2960) are used in INFLIBNET’s Data Centre to improve security, sustainability and borderless network experience which include new flex and data stacking capability provides a unified data plane, configuration, and single IP address management for a group of switches with 1 to 100 Gigabit of throughput connectivity and PoE+ (Power over Ethernet Plus) by offering fast Ethernet access connectivity and removes the need for wall power to each PoE-enabled devices. These switches also support Virtual Local Area Network (VLAN) and DMZ (demilitarized zone) between private network and the public network through UTM.

The INFLIBNET Centre is built by using structured cabling with 40G ready networks, 100G road map backbone network built with CAT 7A and Optical Fiber wiring that can carry and accommodate data, voice, multimedia, security data, VoIP, PoE and wireless connections throughout the building in the campus. There are two areas in the Centre vis-a-vis technical/administration block and residential blocks. Well planned and designed CAT 7A structured cabling backbone network system empower performance of up to 1000 MHz continuous flow of information, support the sharing of resources and promotes

smooth operations. Optical Fiber uplinks are used to connect various L2 switches by stacking using SPF modules.

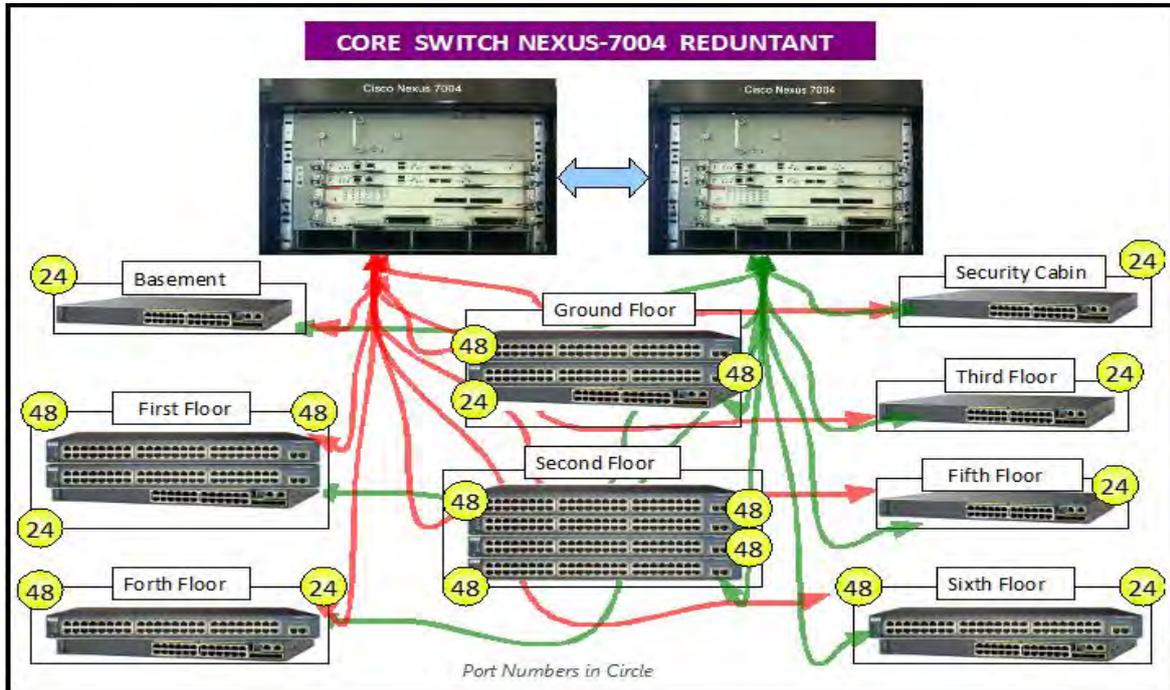


Fig. 42: Core and Edge Switches Distributions in all 7 floors in INFLIBNET Centre

7.2.4. Security and Firewall

The INFLIBNET Centre hosts lots of important services which need proper security protection against attackers/hackers and vulnerabilities in OS and software. Services and data transmissions are to be closely monitored, patch up and timely updates are to be done at regular intervals in protected network location under port controlled security tools. The hosting server placed in a zone called 'DMZ' (Demilitarised Zone) area by creating virtual hosts with private and local IPs. The firewall technologies is implemented based on an integrated high performance protection system against wide range of threats, creating VPN technology, ensuring data privacy between multiple networks and host using SSL VPN protocols, Anti-Virus, Web application filtering, intrusions detection and prevention system (IDS/IPS), anti-spam and traffic shaping to deliver multi layer security.

Surveillance is implemented for the monitoring of the activities, behaviour and other field conditions for managing, directing or protecting employees as well as outsiders. 28 CCTV cameras from M/s. Honeywell are deployed by categorizing into three types. PTZ security cameras allow controlling the Pan, Tilt and zooming operations of the camera lens remotely or through programming. All cameras are IP-based, advanced and PoE (Power on Ethernet) enabled. Live backup of video outputs are archived for further investigation for a month using Dell make server Power Edge R 270 with video back up in Dell NAS box Power vault NX3200. Data centre access is controlled by biometric fingerprint devices on the door.

7.2.5. IP Telephony and PA system

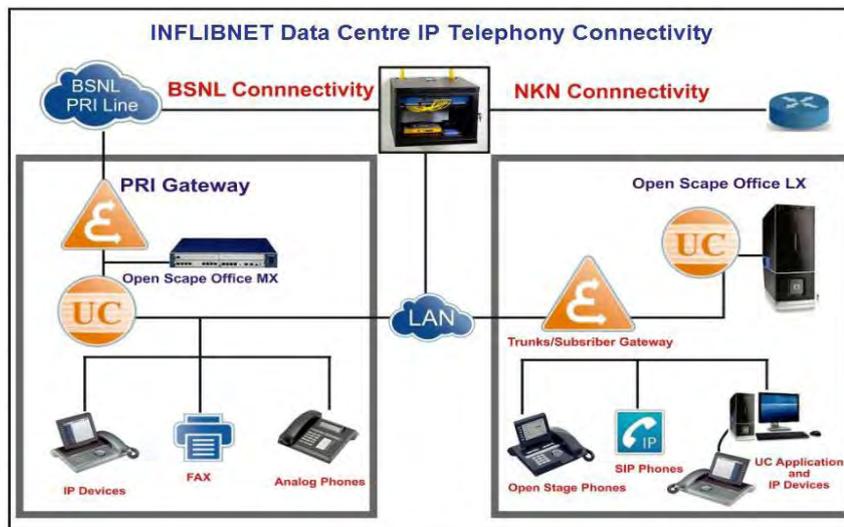


Fig. 43: IP Telephony System @ INFLIBNET Centre

The INFLIBNET Centre has provided IP based telephones to scientists, staff, guest room, residences and other important facility centres. The Centre uses three different categories of IP phones i.e. Siemens Open Stage 60 for Scientists, Open Stage 40 for other staff members and Open Stage 15 for security staff and residences. These OpenStage family phones are designed to be user-friendly and simplify implementation. Sensorial interfaces based on advanced technology solutions (touch keys, embedded colour LEDs, touch slider for volume control and touch guide navigator) as well as large, tilttable, backlit colour graphical displays in TFT technology facilitate user interaction.

A Public Addressing System (PAS) is deployed in various places in the Centre with proper zone configuration. any organisation. Auditorium of INFLIBNET Centre is equipped with professional sound system with premium ultra high headroom analog mixer and state-of-art mic preamps with DSP with 100 presets including reverb, chorus, flanger, delay, pitch shifter and various multi effects with atleast 12 channels for audio devices like mics (i.e. collar, hand-help, audio mike, cordless and vocal instrumental), laptop, CD/DVD player or music instruments, media players, etc. The mixer is connected with sufficient amplifiers for Base (Woofers), FOH (Front of the House), surround speakers, cross over amplifier for balancing the gain of audio and stage monitor speaker with plug and play facility. The auditorium is also be equipped with Wi-Fi hotspot.

7.2.6. Building Management System and HVAC

Building Management System (BMS) integrates the mechanical and electrical equipment used for various services such as ventilation, lighting, power system, fire system and security system. BMS consists of software and hardware in a computer-based control system installed in a building that controls and monitors the above mentioned equipment. INFLIBNET Centre uses HVAC (Heating, Ventilation and Air Conditioning) for indoor environmental comfort based on the principle of thermo

dynamics, fluid mechanics and heat transfer, ensuring maximum levels of efficiency and economy. This is achieved by maintaining the optimum balance between environmental conditions, energy usage and operating requirements. DDC controllers (Digital Direct Controls) distributed with field devices such as voltage sensors, temperature sensors, smoke dictators, fire dictators, etc. are integrated for energy saving. INFLIBNET Centre uses Honeywell Trend for the BMS Solutions.

7.2.7. National Knowledge Network at INFLIBNET

The INFLIBNET Centre is connected to the National Knowledge Network (NKN)/NME-ICT project that provides 1 Gbps MPLS (Multi-Protocol Layer Switching) connectivity to all universities in India. The bandwidth is currently restricted to 100-150 Mbps, but it can be increased on demand based on bandwidth intensive application 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 has a sophisticated Data Centre. It is ensured that 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 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. As shown in figure 44, any university can be reached with minimum nodes on NKN and this gives INFLIBNET an advantage of serving the universities with speed and higher data transfer.



Fig. 44: NKN connectivity

8. 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 "Publication" 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:

8.1. Papers Published in Journals, Newsletters and Conference Proceedings

- i) Kumar, Manoj K. Building the State-of-the-Art IT Infrastructure for ICT enabled Higher Educational Institutions. INFLIBNET Newsletter, 20(2), p. 12-18, 2013.
- ii) Patel, Yatrik and Vaghela Divyakant. INFLIBNET's Virtual Classroom using A-View: A step towards Innovative e-learning Environment. INFLIBNET Newsletter, 20(3), p. 15-18, 2013.
- iii) Asnani, Roma. A Webometrics Analysis of Institutional Repositories using Dspace in India. INFLIBNET Newsletter, 20(4), p. 22-27, 2013.
- iv) Kumar, Abhishek and Shah, Dharmesh. A Case Study on e-SARTS (e-Scholarship-Fellowship Award Registration Tracking System). INFLIBNET Newsletter, 21(1), p. 15-24, 2014.
- v) Kumar, Abhishek and Pallavi. e-Learning Environment. Proceedings of the Seminar on Librarian's Day 2013: Redefining Libraries to Create Next Generation Libraries (ed. Rhoda Bharucha and Bansidhar Bhatt) Gandhinagar, ADINET, INFLIBNET and EDII, p. 24 - 28, 2013.
- vi) Thakur, Archana, Kumar, Abhishek and Pallavi. E-Learning: Initiatives in India. Open Journal of Education, 1(3), p. 61-69, 2013.
- vii) Patel, Yatrik. Institutional repositories: a primer. Technical Conference cum Workshop on Digital Library using Dspace (eds. Lagdhir Rabari and Shraavan Kumar). Gandhinagar, Gujarat National Law university, p. 1-8, 2014

9. Awards, Honours and Distinctions

Jagdish Arora, Director

Dr. Jagdish Arora delivered inaugural address in the National Workshop on Web Scale Discovery Services held at Jawaharlal Nehru University, New Delhi on 9th September 2013. He was Keynote speaker for the National Seminar on e-Content 2013: Bridging the Access Gap - Integrating Content, Technologies and Services held at Ahmedabad on 22nd October, 2013.

Dr. Arora delivered an invited talk on "Digital Library Initiatives at the INFLIBNET Centre" in the International Conference on Digital Libraries (ICDL 2013) organized by TERI at India Habitat Centre, New

Delhi from 27th to 29th November, 2013. He served as faculty in the INASP's Workshop on Building Library Consortium held at University of Colombo, Sri Lanka from 12th to 13th August 2013. He was keynote speaker for the National Workshop on Importance and Use of Copyrights, Patent, and Citation and Impact Factor in Research held at Lingaya's University, Faridabad on 25th January, 2014. He delivered invited talk on "Access to Scholarly e-Resources to Universities and Colleges" in the National Conference on Use of Technology in Higher Education organized by IIT Bombay between 25th and 26th February, 2014.

As member / chairman of the Committee, Dr. Jagdish Arora attended the following important meetings:

- i) Meeting of Finance Committee, Central university of Gujarat held at India International Centre, New Delhi on 17th August 2013.
- ii) Meeting of the Indian Library Advisory Board of the Royal Society of Chemistry held in Hyderabad on 29th August 2013.
- iii) Meeting of the Librarian Appreciation Day of the Royal Society of Chemistry held in Hyderabad on 30th August 2013.
- iv) Meeting of the Board of Studies, Central University of Himachal Pradesh, Dharmshala held on 14th October, 2013.
- v) 1st Meeting of Expert Committee of the MHRD on Drive-up Research Performance in Higher Education Institutions in India held at NII, New Delhi on 21st October, 2013.
- vi) Meeting of the Library Advisory Committee of the Indian Institute of Advanced Studies held at IIAS, Shimla on 3rd November, 2013.
- vii) Meetings of the UGC Committee on Anti-ragging held at UGC Headquarters, New Delhi on 17th October and 27th November, 2013.
- viii) Meeting of Negotiation Committee of DELCON held in New Delhi on 1st December, 2013.
- ix) Meetings of the ICSSR-NASSDOC Committee on Documentation Services and Research Information (CDS&RI) held at ICSSR, New Delhi on 10th October, 2013 and 2nd December, 2013.
- x) Meetings of the Ministry of Earth Sciences (MoES) Consortium held at MoES, New Delhi on 8th, 20th, 27th December, 2013 and 2nd January, 2014.
- xi) Meetings of the Negotiation and Resource Selection Committee of the ICSSR Consortium held at ICSSR, New Delhi on 31st January, 2014 and 17th February, 2014.

- xii) Meetings of the Technical Executive Committee (TEC) of the Scheme on Access to Knowledge for Technology Development and Dissemination (A2K+) held at DSIR, New Delhi on 5th February, 2014 and 18th February, 2014.
- xiii) Special Meeting of the PIs with Chairman, Standing Committee, e-PG-Pathshala held at UGC, New Delhi, on 28th February, 2014.
- xiv) First Meeting of the National Advisory Committee of the MHRD-funded Library Consortia Initiatives held at MHRD, New Delhi, on 14th March, 2014.

10. 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 IGNOU 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 22.

| Sl. No. | Name of the Institute | Degree | No. of students |
|---------|---|--------------|-----------------|
| 1 | Shri Chimantbhai Patel Post Graduate Institute of Computer Applications, Ahmedabad | MCA | 1 |
| 2 | Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar | MSc(IT) | 1 |
| 3 | Shrimad Rajchandra Institute of Management and Computer Application, Bardoli | MCA | 1 |
| 4 | SVPEs Faculty of Engineering Technology & Research, Bardoli | BE(CS) | 1 |
| 5 | Gandhinagar Institute of Technology, Kalol | BE(CS) | 3 |
| 6 | Vishwakarma Government Engineering College, Ahmedabad | BE(CE) | 2 |
| 7 | VIT University, Vellore | MTech (CS&E) | 1 |
| 8 | National Engineering College, Nallatinputhur, Tamilnadu | MCA | 1 |
| 9 | Gujarat University, Ahmedabad | MLISc | 3 |

Table 22: Details of no. of students and their institution

11. Projects @INFLIBNET Centre

11.1. N-LIST (National Library and Information Services Infrastructure for Scholarly Content)

The project entitled "National Library and Information Services Infrastructure for Scholarly Content (N-LIST)" was being funded by the MHRD under its National Mission on Education through ICT (NME-ICT) during XI Plan Period for the Financial Years 2009-10 to 2011-2012. However, the funds could not be allocated to the project during the Financial Year 2012-2013 since NME-ICT Mission document did not provide for continuation of this initiative beyond pilot period. Considering the fact that the project has done exceedingly well during the pilot period, the UGC on request of MHRD, agreed to subsume N-LIST into the UGC-INFONET Digital Library Consortium as its college component. The UGC has allocated additional funding of Rs.20.00 crores to the UGC-INFONET Digital Library Consortium for continuation of N-LIST in the Financial Year 2013-2014. The programme is described in detail at 6.7.2.

11.2. 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 website 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 2013-14. 5,241 applications were received and processed for the year 2013-14.

Rajiv Gandhi National Fellowship for SC/ST Candidates: 9,795 candidates have applied for the Scholarship for the year 2013-2014. Online applications received and processed for the year 2013-14.

Post-Graduate Indira Gandhi Scholarship for Single Girl Child: Online applications were invited for this scheme for the years 2013-15. 4,818 candidates were received and processed.

Post-Graduate Merit Scholarship for University Rank Holder: Online applications were invited for this scheme for the years 2013-15. 2,121 candidates were received and processed.

Post Doctoral Fellowship to SC/ST Candidates: 1,289 candidates have applied for the year 2013-2014. Online applications received and processed.

Post Graduate Scholarships for Professional Courses for SC/ST Candidates: Online applications were invited for this scheme for the years 2013-14. 3,934 applications were received and processed for the year 2013-14.

Post-Doctoral Fellowship to Women Candidates 890 candidates and 1,981 candidates have applied for the year 2012-13 and 2013-14. Online applications received and processed for further necessary action by the UGC.

Raman Fellowship for Post-Doctoral Research for Indian Scholars in USA: Online applications were invited for this scheme for the years 2013-14. 380 applications were received and processed for the year 2013-14.

Emeritus Fellowship: Online applications were invited for this scheme for the years 2013-14. 496 applications were received and processed for the year 2013-14.

Junior Research Fellowship in Engineering & Technology: Online applications were invited for this scheme for the years 2013-14. 250 applications were received and processed for the year 2013-14.

Rajiv Gandhi National Fellowship for Students with Disabilities: 192 candidates and 271 candidates have applied for the year 2012-13 and 2013-14. 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 2013-14. 7,944 applications were received and processed for the year 2013-14.

11.3. e-PG Pathshala

Jagdish Arora, Director
Abhishek Kumar, Scientist C (CS)
Kannan P, Scientist C (LS)
Shweta Brahmabhatt, Project Officer (CS)

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. The content and its quality being the key component of education system, high quality, curriculum-based, interactive content are being created 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. A separate website is maintained for E-PG Pathshala as shown in Figure 45.



Fig. 45: Website of e-PG Pathshala

The INFLIBNET Centre has assigned responsibility for technical and administrative coordination of the programme as per the guidelines of Standing Committee for e-PG Pathshala under the Chairmanship of Prof. M. Anandkrishnan.

The Centre has taken responsibility for content creation for two subjects i.e. Library Science and Information Technology in coordination with Gujarat University.

Progress made under this initiative:

- I. Out of 73, 63 Principal Investigators (PIs) of different subjects have been identified / appointed / nominated. Brief details are as follow:

| | |
|---|-----------|
| No. of Identified PI (1 st instalment has been released) | 46 |
| No of Identified PIs (1 st instalment in process) | 5 |
| No. of PI(s) whose MoA/Revised Proposal yet to be done | 14 |
| PIs to be identified (consent taken over phone) | 10 |
| Total | 73 |

- II. The status on subject/modules are as follow:

| | | |
|---|------|--|
| Total No of Modules received (across 26 subjects) | 730 | Static module (463) + Module in four quadrant 267 |
| Total no of module uploaded on website | 700* | |

*Remaining modules are being uploaded on website.

disciplines (science, arts, engineering, social science, etc) through various Indian institutes / universities / colleges.

The portal would provide facility to search and browse all hosted content 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, syllabus-based search, usage statistics, personalized learning experience with provision for “my account” and “my space”, etc. would be incorporated in this portal.

The Centre is acquiring content distributed on different locations / websites of respective PIs. The Centre will also identify e-content, that are available in open access, incorporate multimedia component to these e-content, if required and host them on the platform under Common Creative License.

12. Other Notable Activities and Events

12.1. Independence Day Celebration

The INFLIBNET Centre celebrated 67th Independence Day on Wednesday, 15th August 2013. 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. A number of games were organized for staff and their children during the event and prizes were distributed to the winners of the games.



Fig. 47: Independence Day celebration with Staff Members and their Families at INFLIBNET Centre, Gandhinagar

12.2. INFLIBNET Celebrated Navratri Garba

The INFLIBNET Centre celebrated Garba festival with great enthusiasm. The Garba night was organized for its employees and their families on 9th October 2013. 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. 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.48: INFLIBNET Centre's Staff with their Family Members during the Garba Celebration at the INFLIBNET Centre

12.3. Republic Day Celebration

The INFLIBNET Centre celebrated 67th Republic Day on Sunday, 26th January 2014 at INFLIBNET Centre, Infocity, Gandhinagar. 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 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.



Fig. 49: Republic Day

12.4. Events @INFLIBNET Auditorium

The following programmes were organized at the Auditorium of INFLIBNET Centre.

- International Conference “Bakhtin in India : Exploring the Dialogic Potential in Self, Culture and History” jointly Organized by The Central University of Gujarat , Gandhinagar and Balvant Parekh Centre for General Semantics and Other Human Sciences, Baroda & the Forum on Contemporary Theory, Baroda, 19th -21st August 2013
- JSTOR India User’s Forum, 1st October 2013
- Two-day National Conference on “Human Rights in India: Dalits, Tribals and Minorities” Organized by Central University of Gujarat, Gandhinagar School of Social Sciences in collaboration with Indian Council for Social Science Research (ICSSR), New Delhi, 21st -22nd November, 2013
- International Conference on “Recent Advances in Cancer Prevention and Therapeutics” organised by School of Life Sciences, Central University of Gujarat, Gandhinagar, 19th -20th November, 2013
- Prof. S. K. Mitra memorial Lecture of INSA 2012 by Prof. Sudhir K. Sopory, Vice-Chancellor, Jawaharlal Nehru University, New Delhi, 1st March 2014

13. Distinguished Visitors

Prof. Ajit Kembhavi, Member, Governing Board, INFLIBNET Centre

Dr. Kuncheria P Isaac, Member Secretary, AICTE, New Delhi

Prof. R K Kale, Vice Chancellor, Central University of Gujarat Gandhinagar

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

Prof. J P Gupta, Vice Chancellor, Sharda University, Noida

Dr. Rajan M Velukar, Vice-chancellor, University of Bombay, Mumbai

Prof. Jai Rup Singh, Vice-chancellor, Central University of Punjab, Bathinda

Mr. R S Mani, Scientist-F, NIC, New Delhi

Dr. Upamanyu Basu, PRS, Financial Advisor, UGC

Prof. R K Kale, Vice Chancellor, Central University of Gujarat, Gandhinagar

Dr. T S Kumbhar, Librarian, IIT Gandhinagar

Mr. Pradeep Varma, Sr. Consultant, NME-ICT, MHRD, New Delhi

Mr. James Thorley, Director of International Sales, Turnitin (Asia-Pacific, Middle East, Latin America, Africa)

Dr. Kamlesh Joshipura, Vice Chancellor, Indian Institute of teacher Education, Gandhinagar

Mr. John Lenahan, Associate Vice President, JSTOR, USA

Dr. H. Anil Kumar, Librarian, Indian Institute of Management, Ahmedabad

Mr. N V Satyanarayana, Chairman, Informatics India Ltd, Bangalore

Besides, the Review Committee on IUCs consisting of the following members visited the INFLIBNET Centre during period under the report:

| | |
|------------------------|-----------------|
| Prof. Goverdhan Mehta | Chairman |
| Prof. M M Sharma | Member |
| Prof. M Anandkrishnan | Member |
| Prof. Surabhi Banerjee | Member |
| Prof. S. Parasuraman | Member |
| Prof. M Durga Prasad | Special Invitee |
| Dr. (Mrs.) Renu Batra | JS, (IUC), UGC |

The Members of the Committee were welcomed and introduced to the scientists and technical staff of the Centre. The following presentations were made by the Director and scientists of the Centre on its activities and services:

- INFLIBNET Centre: Major Activities and Services, Dr. Jagdish Arora, Director
- Consortium Initiatives at INFLIBNET Centre, Mr. Ashok Kumar Rai, Scientist D (CS)
- Open Access Initiatives, Mr. Manoj Kumar K., Scientist D (CS)
- SOUL 2.0: Integrated Library Management Software, Mr. Yatrik Patel, Scientist D (CS)
- IndCat, Mr. Abhishek Kumar Scientist B (CS) and Vidwan, Mr. P. Kannan, Scientist B (LS)
- INFLIBNET Access Management Federation (INFED), Mr. Yatrik Patel, Scientist D (CS)
- Bibliometric Studies: Research Output Profiles of 50 Universities, Ms. Kruti Trivedi, Scientist B (LS)
- Human Resource & ICT Skills Development, Mr. H.G. Hosamani, Scientist C (LS)

The Members of the Review Committee on IUCs interacted with Director and scientists during the presentations. The IUC Review Committee also met the following stakeholders who were invited to attend the meeting:

- Prof. N Mukunda, Chairman, Governing Board, INFLIBNET Centre
- Dr. T S Kumbar, Librarian, IIT Gandhinagar
- Dr. Vedant Pandya, Knowledge Consortium of Gujarat, Gujarat Government
- Prof. E V Ramakrishnan, Dean, School of Language, Literature and Culture Studies, Central University of Gujarat, Gandhinagar
- Dr. Mayank Trivedi, Librarian, M S University, Baroda

The Evaluation Committee made the following general observations:

- i) The Centre has enlarged its portfolio over a period of time with limited number of scientists and staff. As such, the Centre should manage its portfolio either by trimming it down or increase its staff strength and other inputs by introducing Summer Fellowships, Short-term Fellowships, doctoral and post-doctoral programmes to carry out its activities and services effectively and efficiently.
- ii) The manpower available with the Centre for technical as well as administrative activities should be increased. Moreover, the Centre should collaborate with other institutions for handling collaborative projects.
- iii) The Committee appreciated the names assigned to various activities and projects such as SOUL, IndCat, Shodhganga, Shodhgangotri, OJAS, Vidwan, etc.
- iv) The Centre may consider distributing all its open access content including full-text and bibliographic records preloaded on a mobile device such as tablets or smart-phones.
- v) The Committee felt that the Centre should function as a research centre in library and information science discipline. The Committee felt that the Centre needs to improve and enhance its research activities and its applications.

14. 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>.

15. Financial Status

The Audited Annual Accounts of INFLIBNET Centre for the financial year 2013-2014 is given in the Appendix XIV.

Governing Council
(As on 31st March 2014)

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

Prof. S S Mantha

Chairman

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

Dr. Samir K Brahmachari (till 31-12-2013)**Dr. P S Ahuja**

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

Dr. P Y Rajendra Kumar

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 2014)

Ex. Officio Members**Prof. N Mukunda**

Chairman, GB, INFLIBNET
Indian Academy of Sciences
Bangalore

Prof. (Dr.) Jaspal Singh Sandhu

Secretary
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

Prof. E V Ramakrishnan

Vice-Chancellor (In-charge)
Central University of Gujarat
Sector 30, Gandhinagar

Dr. Kuncheria P Isaac

Member Secretary
All India Council for Technical Education (AICTE)
Janpath, New Delhi

Dr. Jagdish Arora (Member Secretary)

Director
INFLIBNET Centre
Infocity, Gandhinagar

Nominated Members**Prof. Sunaina Singh**

Vice Chancellor
English and Foreign Languages University
Osmania University Campus, Hyderabad

Dr. Rajan M Welukar

Vice-Chancellor
University of Mumbai
Mumbai

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

Finance Committee
(As on 31st March 2014)

Ex.Officio Members**Prof. N Mukunda**

Chairman, GB, INFLIBNET Centre
Indian Academy of Sciences
Bangalore

Prof. (Dr.) Jaspal Singh Sandhu

Secretary
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

Mr. Upamanyu Basu, IRS

Financial Advisor
University Grants Commission
Bahadurshah Zafar Marg
New Delhi

Dr. R K Chadha

Additional Secretary
Lok Sabha
New Delhi

Dr. Jagdish Arora

Director
INFLIBNET Centre
Infocity, Gandhinagar

Nominated Member**Mr. Ashok Kumar Rai**

Scientist-D (CS)
INFLIBNET Centre
Infocity, Gandhinagar
(Sr. Professional)

Mr. Harish Chandra

Admn. Officer (PA&F)
INFLIBNET Centre
Infocity, Gandhinagar
(Admn./Accounts Officer)
(Non-Member Secretary)

Dr. (Mrs.) Manju Singh

Joint Secretary
University Grants Commission
Bahadurshah Zafar Marg
New Delhi
(Special Invitee)

**Technical, Administrative and Supporting Staff
(As on 31st March 2014)**

| 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) (from 27.08.2013 onwards) |
| 7. | Mr. Abhishek Kumar | Scientist-C (CS) (from 10.09-2013 onwards) |
| 7. | Mr. Swapnil P. Patel | Scientist-B (CS) |
| 8. | Mr. Divyakant Vaghela | Scientist-B (CS) |
| 9. | Mr. Gaurav Prakash | Scientist-B (CS) |
| 10. | Mrs. Vaishali A. Shah | Scientist-B (LS) |
| 11. | Ms. Kruti J. Trivedi | Scientist-B (LS) |
| 13. | Mr. Dinesh Ranjan Pradhan | Scientist-B (LS) (from 21.01.2014 onwards) |
| 14. | Mr. Mitesh Pandya | Scientist-B (LS) (from 18.02.2014 onwards) |
| 15. | Mrs. Hema Cholin | S.T.O – I (LS) (from 27.08.2013 onwards) |
| 16. | Mr. Saroja Kumar Panda | STA- I (LS) |
| 17. | Mrs. Roma Asnani | STA- I (LS) (from 13.01.2014 onwards) |
| 18. | Mr. Dharmeshkumar A. Shah | STA-I (CS) |
| 19. | Mr. Mohit Kumar | STA-I (CS) |
| 20. | Mr. Vijaykumar M Shrimali | STA-I (CS) |
| Administrative & Support Staff | | |
| 21. | Mr. Harish Chandra | Administrative Officer (P&A) |
| 22. | Mr. Sanjay R. Shah | Office Assistant-II |
| 23. | Mr. S. F. Vanikar | Office Assistant-II (till 11.04.2014) |
| 24. | Mrs. S. M. Munshi | Section Officer (from 18.06.2013 onwards) |
| 25. | Mrs. Yamini J. Dave | Clerk-cum- Typist |
| 26. | Mrs. R. B. Pendharkar | Clerk-cum- Typist |
| 27. | Mr. Ankur B. Parikh | Clerk-cum- Typist |
| 28. | Mr. Shyam T. Yadav | Helper |

| | | |
|--|----------------------------|---|
| 29. | Mr. Vinod B. Dantani | Helper |
| 30. | Mr. Bakul M. Parmar | Lab Attendant |
| Contractual Staff in Computer Science | | |
| 31. | Mr. Ramiz Malik | Sr. Project Officer (CS) |
| 32. | Mrs. Shweta Bhrahmbhatt | Project Officer (CS) |
| 33. | Ms. Nabila Shaikh | Project Officer (CS) |
| 34. | Mr. Bhavesh P. Pandariya | Project Officer (CS) (till 24.3.2014) |
| 35. | Ms. Zarana Mistry | Project Officer (CS) |
| 36. | Ms. Bhargavi Kadiya | Project Officer (CS) |
| 37. | Mr. Swayamprakash Rajput | Project Associate (CS) |
| 38. | Mr. Jaynil Gandhi | Project Associate (CS) (till 14.03.2014) |
| 39. | Mr. Mayur Gohel | Project Associate (CS) |
| 40. | Mr. Nirav Rana | SOUL Technical Assistant (CS) |
| Contractual Staff in Library Science | | |
| 41. | Mrs. Priti Sharma | Project Officer (LS) |
| 42. | Mrs. Pallavi | Project Officer (LS) (till 24.12.2013) |
| 43. | Mr. Kamlesh Vegad | Project Officer (LS) |
| 44. | Ms. Seema Chavda | Project Officer (LS) |
| 45. | Ms. Archita Muchhadia | Project officer (LS) |
| 46. | Mr. Kuldeep Matedia | Project Associate (LS) |
| 47. | Ms. Alpa K. Acharya | Project Associate (LS) |
| 48. | Ms. Sonal Vaghela | Project Assistant (LS) |
| 49. | Ms. Arpita Umeshbhai Barot | Project Assistant (LS) |
| 50. | Mr. Vipul Banker | SOUL Technical Assistant (LS) |
| 51. | Mr. Hiren Prajapati | SOUL Technical Assistant (LS) (till 2.07.214) |

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 | 32794 | 1300 |
| 4 | Adikavi nannya University, Rajahmundry, Andhra Pradesh | | 4 |
| 5 | Ahmedabad University, Ahmedabad, Gujarat | 22341 | |
| 6 | Alagappa University, Karaikudi, Tamil Nadu | 43635 | 179 |
| 7 | Aligarh Muslim University, Aligarh, Uttar Pradesh | 162157 | 9782 |
| 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 | 1604 | |
| 12 | Andhra University, Vishakhapatnam, Andhra Pradesh | 216049 | 6865 |
| 13 | Anna University, Chennai, Tamil Nadu | 98640 | 1666 |
| 14 | Annamalai University, Annamalai Nagar, Tamil Nadu | 473810 | 2241 |
| 15 | Assam Agricultural University, Jorhat, Assam | | 84 |
| 16 | Assam University, Silchar, Assam | 32668 | 134 |
| 17 | Avinashilingam University for Women, Coimbatore, Tamil Nadu | | 148 |
| 18 | Avinashlingam Institute for Home Science, Coimbatore, Tamil Nadu | 90798 | |
| 19 | Awadhesh Pratap Singh Vishwavidyalaya, Rewa, Madhya Pradesh | | 1057 |
| 20 | B L D E University, Bijapur, Karnataka | 12301 | |
| 21 | Baba Ghulam Shah Badshah Univ, Rajouri, Jammu & Kashmir | 6567 | |
| 22 | Babasaheb Bhimrao Ambedkar Bihar University, Muzaffarpur, Bihar | | 874 |
| 23 | Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh | 15850 | 19 |
| 24 | Banaras Hindu University, Varanasi, Uttar Pradesh | 445000 | 14811 |
| 25 | Banasthali University, Banasthali, Rajasthan | 75620 | 109 |
| 26 | Bangalore University, Bangalore, Karnatak | 130000 | 1726 |
| 27 | Barkatullah Vishwavidyalaya, Bhopal, MP | | 1067 |
| 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 | 87115 | 70 |
| 33 | Bharathidasan University, Tiruchirapalli, Tamil Nadu | 52774 | 479 |

| | | | |
|----|--|--------|------|
| 34 | Bharati Vidyapeeth, Pune, Maharashtra | 20215 | 42 |
| 35 | Bhavnagar University, Bhavnagar, Gujarat | 44385 | 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, Rajasthan | 72015 | 276 |
| 39 | Birsa Agricultural University, Ranchi, Jharkhand | | 98 |
| 40 | Bundelkhand University, Jhansi, Uttar Pradesh | | 1015 |
| 41 | Burdwan University, Burdwan, West Bengal | 45000 | |
| 42 | C S M Medical University, Lucknow, Uttar Pradesh | 366 | |
| 43 | Central Drugs Research Institute, Lucknow, Uttar Pradesh | | 45 |
| 44 | Central Inst. of English & Foreign Lang. , Hyderabad, Andhra Pradesh | 50000 | 104 |
| 45 | Central Institute of Fisheries Education, Mumbai, Maharashtra | | 2 |
| 46 | Central University of Tibetan Studies, Varanasi, Uttar Pradesh | 25145 | |
| 47 | Chandra Shekhar Azad University of Agriculture & Technology, Kanpur, Uttar Pradesh | | 371 |
| 48 | Chatrapati Shahu Ji Maharaj University, Kanpur, Uttar Pradesh | 5000 | 2075 |
| 49 | Chaudhary Charan Singh Haryana Agricultural University, Hissar, Haryana | | 1049 |
| 50 | Chaudhary Charan Singh University, Meerut, Uttar Pradesh | 79796 | 1930 |
| 51 | Chaudhary Devi Lal University, Sirsa, Haryana | | 38 |
| 52 | Chaudhary Sarwan Kumar Himachal Pradesh Krishi Vishwavidyalaya, Palampur, Himachal Pradesh | | 543 |
| 53 | CMJ University, Shillong, Meghalaya | | 3 |
| 54 | Cochin University of Science & Technology, Kochi, Kerala | 72693 | 2079 |
| 55 | Dakshina Bharat Hindi Prachar Sabha, Chennai, Tamil Nadu | | 24 |
| 56 | Dayalbagh Educational Institute, Agra, Uttar Pradesh | | 316 |
| 57 | Deccan College Post Graduate & Research Institute, Pune, Maharashtra | 140000 | 102 |
| 58 | Deenbandhu Chhotu Ram University of Science & Technology, Murthal (Haryana) | 24211 | |
| 59 | Deendayal Upadhyay Gorakhpur University, Gorakhpur, Uttar Pradesh | 15992 | 1632 |
| 60 | Defence Science Centre, Delhi | | 13 |
| 61 | Dev Sanskriti Vishwavidyalaya, Dehradun, Uttaranchal | | 129 |
| 62 | Devi Ahilya Vishwavidyalaya, Indore, Madhya Pradesh | 18000 | 2784 |
| 63 | Dharmsinh Desai University, Nadiad, Gujarat | 16063 | |
| 64 | Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, Gujarat | | 4 |
| 65 | Dibrugarh University, Dibrugarh, Assam | 57466 | 612 |
| 66 | Doon University, Dehradun, Uttarakhand | 3707 | |
| 67 | Dr. B R Ambedkar open Univ, Hyderabad, Andhra Pradesh | 89402 | 1 |
| 68 | Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, | | 1 |

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|-----|--|--------|------|
| | Punjab | | |
| 69 | Dr. Babasaheb Ambedkar Open University, Ahmedabad, Gujarat | | 2 |
| 70 | Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra | 36015 | 2581 |
| 71 | Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Maharashtra | | 24 |
| 72 | Dr. Bhim Rao Ambedkar University, Agra, Uttar Pradesh | 133000 | 3678 |
| 73 | Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh | | 2664 |
| 74 | Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra | | 195 |
| 75 | Dr. Ram Manohar Lohia Avadh University, Faizabad, Uttar Pradesh | | 366 |
| 76 | Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Solan, Himachal Pradesh | | 462 |
| 77 | Dravidian University, Kuppam, Andhra Pradesh | 32758 | 3 |
| 78 | Eternal University, Baru Sahib, Sirmour, Himachal Pradesh | | 7 |
| 79 | Fakir Mohan University, Balasore, Orissa | | 26 |
| 80 | Forest Research Institute, Dehradun, Uttaranchal | | 355 |
| 81 | Gandhigram Rural Institute, Gandhigram, Tamil Nadu | 166196 | 257 |
| 82 | Ganpat University, Mehsana, Gujarat | | 1 |
| 83 | Gauhati University, Guwahati, Assam | 10000 | 2560 |
| 84 | GLA University, Mathura, Uttar Pradesh | 11568 | |
| 85 | Goa University, Panaji, Goa | 109886 | 387 |
| 86 | Gokhale Institute of Politics and Economics, Pune, Maharashtra | 246000 | 6 |
| 87 | Govind Ballabh Pant University of Agriculture and Technology, Pant Nagar, Uttaranchal | | 622 |
| 88 | Graphic Era University, Dehradun, Uttarakhand | | 3 |
| 89 | Gujarat Agricultural University, Anand, Gujarat | | 152 |
| 90 | Gujarat Ayurved University, Jamnagar, Gujarat | | 202 |
| 91 | Gujarat Forensic Sciences University, Gandhinagar, Gujarat | | 2 |
| 92 | Gujarat University, Ahmedabad, Gujarat | 250000 | 1617 |
| 93 | Gujarat Vidyapith, Ahmedabad, Gujarat | 441872 | 53 |
| 94 | Gulbarga University, Gulbarga, Karnataka | 84964 | 401 |
| 95 | Guru Angad Dev Veterinary and Animal Sciences University, Hissar, Haryana | | 11 |
| 96 | Guru Ghasidas University, Bilaspur, Chattisgarh | 46326 | 1920 |
| 97 | Guru Gobind Singh Indraprasth University, Delhi | 17374 | |
| 98 | Guru Jambheshwar University of Science & Technology, Hissar, Haryana | 17507 | 364 |
| 99 | Guru Nanak Dev University, Amritsar, Punjab | 122302 | 737 |
| 100 | Gurukula Kangri Vishwavidyalaya, Haridwar, Uttaranchal | 90372 | 127 |
| 101 | Hemchandracharya North Gujarat University, Patan, Gujarat | 55201 | 1238 |
| 102 | Hemwati Nandan Bahuguna Garhwal University, Garhwal, Uttaranchal | | 457 |
| 103 | Himachal Pradesh University, Shimla, Himachal Pradesh | 46582 | 1227 |

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|-----|---|--------|------|
| 104 | Homi Bhabha National Institute, Mumbai | | 155 |
| 105 | IIT Bhubneshwar, Bhubneshwar, Orissa | 1028 | |
| 106 | Indian Agricultural Research Institute, New Delhi | | 1997 |
| 107 | Indian Institute of Advanced Study, Shimla, Himachal Pradesh | 136961 | |
| 108 | Indian Institute of Management, Bangalore, Karnataka | 117518 | |
| 109 | Indian Institute of Science Bangalore, Bengaluru, Karnataka | | 2174 |
| 110 | Indian Institute of Technology Bombay, Mumbai, Maharashtra | | 1161 |
| 111 | Indian Institute of Technology Delhi, New Delhi | | 3273 |
| 112 | Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh | | 1058 |
| 113 | Indian Institute of Technology Kharagpur, Kharagpur, West Bengal | | 1448 |
| 114 | Indian Institute of Technology Madras, Chennai, Tamil Nadu | | 1694 |
| 115 | Indian Institute of Technology Roorkee, Roorkee, Uttarakhand | 70000 | 2458 |
| 116 | Indian Institute of Technology, Hyderabad, Andhra Pradesh | 8480 | |
| 117 | Indian Institute of Technology, Mandi, Himachal Pradesh | 8154 | |
| 118 | Indian Institute of Technology, Ropar, Punjab | 4274 | |
| 119 | Indian Institute of Tropical Meteorology, Pune, Maharashtra | | 2 |
| 120 | Indian Law Institute, New Delhi | | 1 |
| 121 | Indian School of Mines, Dhanbad, Jharkhand | | 438 |
| 122 | Indian Statistical Institute, Kolkata, West Bengal | | 125 |
| 123 | Indian Veterinary Research Institute, Izatnagar, Uttar Pradesh | | 111 |
| 124 | Indira Gandhi National Open University, New Delhi | | 4 |
| 125 | Indira Kala Sangeet Vishwavidyalaya, Khairagarh, Chattisgarh | 13697 | 136 |
| 126 | Industrial Toxicology Research Centre, Lucknow, Uttar Pradesh | | 9 |
| 127 | Institute for Social and Economics Change, Bangalore, Karnataka | | 40 |
| 128 | International Institute for Population Sciences, Govandi, Mumbai, Maharashtra | 51139 | 124 |
| 129 | Jadavpur University, Kolkata, West Bengal | 223670 | 1307 |
| 130 | Jagadguru Ramanandacharya Rajasathan Sanskriti University, Jaipur, Rajasthan | | 12 |
| 131 | Jai Narain Vyas University, Jodhpur, Rajasthan | 4823 | 1976 |
| 132 | Jai Prakash Vishwavidyalaya, Chapra, Bihar | | 21 |
| 133 | Jain Vishva Bharati Institute, Ladnun, Rajasthan | 4715 | 127 |
| 134 | Jamia Hamdard University, New Delhi | 37487 | 323 |
| 135 | Jamia Milia Islamia, New Delhi | 64177 | 1169 |
| 136 | Jawaharlal Nehru Institute of Postgraduate Medical Education and Research, Dhanvantri Nagar, Puducherry | | 2 |
| 137 | Jawaharlal Nehru Krishi Vishwavidyalaya, Jabalpur, Madhya Pradesh | | 206 |
| 138 | Jawaharlal Nehru Technological University, Hyderabad, Andhra Pradesh | | 610 |
| 139 | Jawaharlal Nehru University, New Delhi | 311067 | 5524 |
| 140 | Jaypee University of Information Technology, Solan, Himachal Pradesh | | 2 |

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|-----|--|--------|------|
| 141 | Jiwaji University, Gwalior, Madhya Pradesh | 25000 | 1445 |
| 142 | Kakatiya University, Warangal, Andhra Pradesh | 56837 | 2206 |
| 143 | Kameshwar Singh Darbhanga Sanskrit University, Darbhanga, Bihar | 1351 | 257 |
| 144 | Kannada University, Hampi, Karnataka | 34877 | 203 |
| 145 | Kannur University, Kannur, Kerala | 28503 | 317 |
| 146 | Karnatak State Women University, Bijapur, Karnataka | 60165 | 6 |
| 147 | Karnatak University, Dharwad, Karnataka | 145111 | 3288 |
| 148 | Karnataka State Open University, Mysore, Karnataka | | 49 |
| 149 | Karnataka Veterinary, Animal and Fisheries Sciences University Nandi Nagar - Karnataka | | 102 |
| 150 | Kavi Kulaguru Kalidas Sanskrit Vishwavidyalaya, Ramtek, Nagpur, Maharashtra | | 2 |
| 151 | Kerala Agricultural University, Ernakulam, Kerala | | 174 |
| 152 | KLE University, Belgam, Karnataka | | 6 |
| 153 | Krantiguru Shyamji Krushn Verma Kachchh University, Bhuj, Gujarat | | 13 |
| 154 | Krishna Kanta Handiqui State Open University, Gauhati, Assam | 9073 | |
| 155 | Kumaun University, Nainital, Uttaranchal | 5000 | 970 |
| 156 | Kurukshetra University, Kurukshetra, Hariyana | 200000 | 4456 |
| 157 | Kuvempu University, Kuvempu, Karnataka | 46693 | 1230 |
| 158 | Lakshmbai National Institute of Physical Education University, Gwalior, Madhya Pradesh | | 103 |
| 159 | Lalit Narayan Mithila Vishvidyalaya, Darbhanga, Bihar | | 182 |
| 160 | M J P Rohilkhand University, Bareilly, Uttar Pradesh | | 2913 |
| 161 | Madhya Pradesh Bhoj University, Bhopal, Madhya Pradesh | | 61 |
| 162 | Madurai Kamaraj University, Madurai, Tamil Nadu | 194525 | 952 |
| 163 | Magadh University, Bodhgaya, Bihar | | 1115 |
| 164 | Maharaja Sayajirao University of Baroda, Vadodara, Gujarat | 429722 | 3018 |
| 165 | Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan | | 132 |
| 166 | Maharashtra Animal & Fishery Sciences University, Mumbai, Maharashtra | | 11 |
| 167 | Maharishi Mahesh Yogi Vedic Vishwavidyalaya, Noida, Uttar Pradesh | | 2 |
| 168 | Maharshi Dayanand Saraswati University, Ajmer, Rajasthan | 27095 | 48 |
| 169 | Maharshi Dayanand University, Rohtak, Haryana | | 2387 |
| 170 | Maharshi Markandeshwar University, Mullana-Ambala, Haryana | | 18 |
| 171 | Mahatma Gandhi Antarrashtriya Hindia Vishwavidyalaya, Wardha, Maharashtra | | 51 |
| 172 | Mahatma Gandhi Chitrakoot Gramoday Vishwavidyalaya, Chitrakoot, Madhya Pradesh | | 7 |
| 173 | Mahatma Gandhi Gramoday Vishwavidyalaya, Chitrakoot, Madhya Pradesh | 5000 | |
| 174 | Mahatma Gandhi Kashi Vidyapeeth, Varanasi, Uttar Pradesh | | 143 |

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|-----|--|--------|------|
| 175 | Mahatma Gandhi University, Kottayam, Kerala | 70439 | 1608 |
| 176 | Mahatma Phule Krishi Vidyapeeth, Rahuri, Maharashtra | | 458 |
| 177 | Makhanlal Chaturvedi Rashtriya Patrakarita Vishwavidyalaya, Bhopal, Madhya Pradesh | | 27 |
| 178 | Mangalore University, Mangalore, Karnataka | 35649 | 588 |
| 179 | Manipal Academy of Higher Education, Manipal, Karnataka | | 8 |
| 180 | Manipal University, Manipal, Karnataka | | 135 |
| 181 | Manipur University, Imphal, Manipur | 71547 | 1440 |
| 182 | Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu | 42344 | 65 |
| 183 | Marathwada Krishi Vidyapeeth, Parbhani, Maharashtra | | 554 |
| 184 | MATS University, Raipur, Chhattisgarh | | 2 |
| 185 | Maulana Azad National Institute of Technology, Hyderabad, Andhra Pradesh | | 67 |
| 186 | Maulana Azad National Urdu University, Hyderabad, Andhra Pradesh | 9261 | |
| 187 | Mizoram University, Aizwal, Mizoram | 19585 | 157 |
| 188 | Mohanlal Sukhadia University, Udaipur, Rajasthan | 107621 | 1022 |
| 189 | Mother Teresa Women's University, Kodaikanal, Kerala | 34113 | 7 |
| 190 | N T R Univdrstiy of Health Sciences Vijaywada-Andhrapradesh | | 1 |
| 191 | Nagaland University, Kohima, Nagaland | 15556 | 47 |
| 192 | NALSAR Univ of Law, Hyderabad, Andhra Pradesh | 14415 | |
| 193 | Narendra Dev University of Agriculture and Technology, Faizabad, Uttar Pradesh | | 118 |
| 194 | National Botanical Research Institute, Lucknow, Uttar Pradesh | | 3 |
| 195 | National Brain Research Centre, Manesar, Gurgaon, Haryana | | 9 |
| 196 | National Chemical Laboratory, Pune, Maharashtra | | 16 |
| 197 | National Dairy Research Institute, Karnal, Haryana | | 170 |
| 198 | National Institute of Mental Health and Neuro Sciences, Bengaluru, Karnataka | | 331 |
| 199 | National Institute of Pharmaceutical Education and Research, Hyderabad, Andhra Pradesh | | 177 |
| 200 | National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh | 23900 | |
| 201 | National Institute of Technology Hamirpur, Hamirpur, Himachal Pradesh | | 9 |
| 202 | National Institute of Technology Karnataka | | 17 |
| 203 | National Institute of Technology Rourkela, Rourkela, Jharkhand | | 3 |
| 204 | National Institute of Technology Silchar, Silchar, Assam | | 11 |
| 205 | National Institute of Technology Warangal, Warangal, Andhra Pradesh | | 11 |
| 206 | National Law Institute Univ, Bhopal, Madhya Pradesh | 5947 | |
| 207 | National Sugar Institute, Kanpur, Uttar pradehs | | 3 |
| 208 | National Univ of Advanced Legal Studies, Kochi, Kerala | 5749 | |

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|-----|---|--------|-------|
| 209 | Netaji Subhas Open University, Kolkata, West Bengal | | 1 |
| 210 | Nirma University, Ahmedabad, Gujarat | | 21 |
| 211 | North Eastern Hill University, Shilong, Meghalaya | 84523 | 1383 |
| 212 | North Eastern Regional Institute of Science & Technology, Itanagar, Arunachal Pradesh | | 6 |
| 213 | North Maharashtra University, Jalgaon, Maharashtra | 35000 | 370 |
| 214 | North Orissa University, Mayurbhanj, Orissa | | 5 |
| 215 | Orissa University of Agricultural and Technology, Bhubaneswar, Orissa | | 106 |
| 216 | Osmania University, Hyderabad, Andhra Pradesh | 102741 | 7159 |
| 217 | Padmashree Dr. D Y Patil University, Navi Mumbai Maharashtra | | 2 |
| 218 | Pandit Ravishankar Shukla University, Raipur, Chhattisgarh | 156564 | 1217 |
| 219 | Pandit Sundarlal Sharma Open University, Bilaspur, Chhattisgarh | | 8 |
| 220 | Panjab University, Punjab | 205168 | 3773 |
| 221 | Patna University, Patna, Bihar | | 727 |
| 222 | Periyar University, Salem, Tamil Nadu | 25606 | 46 |
| 223 | Pondicherry University, Pondicherry | 37174 | 1142 |
| 224 | Postgraduate Institute of Medical Education & Research, Chandigarh | | 332 |
| 225 | Potti Sreeramulu Telugu University, Hyderabad | 25936 | 119 |
| 226 | Pravara Institute of Medical Sciences, Loni, Maharashtra | 20529 | |
| 227 | PRIST Univerisity, Thanjavur, Tamil Nadu | | 5 |
| 228 | Punjab Agricultural University, Ludhiana, Punjab | | 1775 |
| 229 | Punjabi University, Patiala, Punjab | 34254 | 1862 |
| 230 | Rabindra Bharati University, Howarha, West Bengal | 16924 | 425 |
| 231 | Rajasthan Agricultural University, Bikaner, Rajasthan | | 166 |
| 232 | Rajendra Agricultural University, Samastipur, Bihar | | 160 |
| 233 | Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, Madhya Pradesh | 33673 | 56 |
| 234 | Rajiv Gandhi University, Doimukh, Arunachal Pradesh | 25000 | 89 |
| 235 | Raman Research Institute, Bengaluru, Karnataka | | 5 |
| 236 | Ranchi University, Ranchi, Jharkhand | 60554 | 336 |
| 237 | Rani Durgawati Vishwavidyalaya, Jabalpur, Madhya Pradesh | 20000 | 1789 |
| 238 | Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, Maharashtra | 202803 | 10408 |
| 239 | Rashtriya Sanskrit Sansthan, Janakpuri, New Delhi | | 40 |
| 240 | Rashtriya Sanskrit Vidyapeetha, Tirupati, Andhra Pradesh | 16690 | 182 |
| 241 | S R M University (S R M Institute of Science and Technology) Chennai - Tamil Nadu | | 38 |
| 242 | Sam Higginbotom Institute of Agriculture, Technology & Sciences, Allahabad, Uttar Pradesh | | 283 |
| 243 | Sambalpur University, Sambalpur, Orissa | 32993 | 1196 |
| 244 | Sampurnanand Sanskrit Vishwavidyalaya, Varanasi, Uttar Pradesh | 10000 | 82 |
| 245 | Sant Gadge Baba Amravati University, Amravati, Maharashtra | 71862 | 133 |

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| 246 | Sant Longowal Institute of Engineering and Technology, Longowal, Punjab | | 14 |
| 247 | Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat | 224673 | 942 |
| 248 | Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat | | 32 |
| 249 | Sathyabama University, Chennai, Tamil Nadu | | 2 |
| 250 | Saurashtra University, Rajkot, Gujarat | 20965 | 2042 |
| 251 | Saveetha University Tiruvallur, Tamil Nadu | | 2 |
| 252 | School of Planning and Architecture, New Delhi | | 3 |
| 253 | Shanmugha Arts, Science, Technology & Research Academy University (SASTRA University), Thanjavur, Tamil Nadu | | 1 |
| 254 | Sher-e-Kashmir University of Agricultural Sciences and Technology Jammu, Jammu, Jammu & Kashmir | | 48 |
| 255 | Sher-i-Kashmir Institute of Medical Science, Srinagar, Jammu & Kashmir | | 1 |
| 256 | Shivaji University, Kolhapur, Maharashtra | 60506 | 1553 |
| 257 | Shobhit University, Meerut, Uttar Pradesh | | 43 |
| 258 | Shreemati Nathibai Damodar Thackersey Women's University, Mumbai, Maharashtra | 70577 | 669 |
| 259 | Shri Jagannath Sanskrit Vishwavidyalaya, Puri, Orissa | | 62 |
| 260 | Shri Jagdishprasad Jhabarmal Tibarewala University, Vidyanagari, Chudela, Rajasthan | | 91 |
| 261 | Shri Mata Vaishno Devi University, Kakryal, Katra, Jammu & Kashmir | 6983 | 21 |
| 262 | Sido Kanhu Murmu University, Dhumka, Jharkhand | | 4 |
| 263 | Sikkim-Manipal University of Health, Medical & Technological Sciences, Gangtok, Sikkim | | 5 |
| 264 | Siksha O Anusandhan University, Bhubneswar, Orissa | | 24 |
| 265 | Solapur University, Solapur, Maharashtra | | 61 |
| 266 | Sree Chitra Tirunal Institute for Medical Sciences & Technology, Travancore, Kerala | 24110 | 7 |
| 267 | Sree Sankaracharya University of Sanskrit, Kalady, Kerala | 42822 | 179 |
| 268 | Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kanchipuram, Tamil Nadu | | 14 |
| 269 | Sri Krishnadevaraya University, Anantapura, Andhra Pradesh | 35167 | 351 |
| 270 | Sri Padmavati Mahila Vishwavidyalaya, Tirupati, Andhra Pradesh | 37088 | 63 |
| 271 | Sri Ramachandra University, Chennai, Tamil Nadu | | 93 |
| 272 | Sri Sathya Sai Institute of Higher Learning, Anantpur, Andhra Pradesh | 28937 | 50 |
| 273 | Sri Venkateswara University, Tirupati, Andhra Pradesh | 88864 | 2629 |
| 274 | Sumandeep Vidyapeeth, Vadodara, Gujarat | | 3 |
| 275 | Suresh Gyan Vihar University Jaipur- Rajasthan | | 30 |
| 276 | Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra | 44651 | 474 |

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| 277 | Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) University, Bengaluru, Karnataka | 7543 | 38 |
| 278 | Tamil Nadu Dr. Ambedkar Law University, Chennai, Tamil Nadu | | 14 |
| 279 | Tamil Nadu Dr. M.G.R.Medical University, Chennai, Tamil Nadu | | 3 |
| 280 | Tamil Nadu Veterinary and Animal Sciences University, Chennai, Tamil Nadu | | 191 |
| 281 | Tamil University, Thanjavur, Tamil Nadu | 7222 | |
| 282 | Tamilnadu Agricultural University, Coimbatore, Tamil Nadu | | 404 |
| 283 | Tamilnadu Physical Education and Sports University Chennai - Tamil Nadu | | 17 |
| 284 | Tata Institute of Fundamental Research, Mumbai, Maharashtra | | 20 |
| 285 | Tata Institute of Social Sciences, Govandi, Mumbai, Maharashtra | 56423 | 122 |
| 286 | Teri University, New Delhi, Delhi | | 22 |
| 287 | Tezpur University, Tezpur, Assam | 25888 | 175 |
| 288 | Thapar Institute of engineering and Technology, Patiyala, Punjab | 16806 | |
| 289 | Thapar University, Patiala, Punjab | | 223 |
| 290 | The WB National University of Juridical Sciences, Kolkata, West Bengal | 11027 | |
| 291 | Tilak Maharashtra Vidyapeeth, Pune, Maharashtra | 63777 | 119 |
| 292 | Tilkamanjhi Bhagalpur University, Bhagalpur, Bihar | 3147 | 418 |
| 293 | Tripura University, Suryamaninagar, Tripura | | 94 |
| 294 | University College of Medical Sciences, Delhi | | 1 |
| 295 | University of Agricultural Sciences | | 447 |
| 296 | University of Allahabad, Allahabad, Uttar Pradesh | 5300 | 1956 |
| 297 | University of Bundelkhand, Jhansi, Uttar Pradesh | 30110 | |
| 298 | University of Burdwan, Burdwan, West Bengal | | 3808 |
| 299 | University of Calcutta, Kolkata, West Bengal | 15690 | 9348 |
| 300 | University of Calicut, Calicut, Kerala | 69847 | 1681 |
| 301 | University of Delhi, New Delhi | 688174 | 17283 |
| 302 | University of Hyderabad, Hyderabad, Andhra Pradesh | 376217 | 659 |
| 303 | University of Jammu, Jammu & Kashmir | 110643 | 4911 |
| 304 | University of Kalyani, West Bengal | 4323 | 345 |
| 305 | University of Kashmir, Srinagar, Jammu & Kashmir | 310853 | 440 |
| 306 | University of Kerala, Thiruvananthapuram, Kerala | 131249 | 1581 |
| 307 | University of Lucknow, Lucknow, Uttar Pradesh | | 2708 |
| 308 | University of Madras, Chennai, Tamil Nadu | 50000 | 3951 |
| 309 | University of Mumbai, Mumbai, Maharashtra | 827773 | 6013 |
| 310 | University of Mysore, Mysore, Karnataka | 129945 | 1113 |
| 311 | University of North Bengal, Siligudi, West Bengal | 178357 | 1225 |
| 312 | University of Pune, Pune, Maharashtra | 35592 | 3431 |
| 313 | University of Rajasthan, Jaipur, Rajasthan | | 7175 |
| 314 | Utkal University of Culture, Bhubaneswar, Orissa | | 1 |

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|-----|--|-----------------|---------------|
| 315 | Utkal University, Bhubneswar, Orissa | | 1880 |
| 316 | Uttar Pradesh Technical University, Lucknow, Uttar Pradesh | | 37 |
| 317 | Vardhaman Mahaveer Open University, Kota, Rajasthan | | 42 |
| 318 | Veer Bahadur Singh Purvanchal University, Jaunpur, Uttar Pradesh | | 69 |
| 319 | Veer Kunwar Singh University, Ara, Bihar | | 67 |
| 320 | Veer Narmad South Gujarat University, Surat, Gujarat | 200567 | 320 |
| 321 | Vellore Institute of Technology, Vellore, Tamil Nadu | | 3 |
| 322 | Vidyasagar University, Mednapur, West Bengal | 41320 | 206 |
| 323 | Vikram University, Ujjain, Madhya Pradesh | | 2074 |
| 324 | Vinoba Bhave University, Hazaribag, Jharkhand | | 365 |
| 325 | Visva Bharati University, Shanti Niketan, West Bengal | 24336 | 525 |
| 326 | Visvesvaraya National Institute of Technology, Nagpur, Maharashtra | | 65 |
| 327 | Visvesvaraya Technological University, Belgaum, Karnataka | | 181 |
| 328 | West Bengal University of Technology, Kolkata, West Bengal | 15007 | 2 |
| 329 | Yashwantrao Chavan Maharashtra Open University, Nasik, Maharashtra | 36253 | 89 |
| | Total Records | 12856096 | 264628 |

State-Wise List of the SOUL Installations

| Sl. No. | Name of the State | Installation | 1 st April, 13 to 31 st March, 14 | Total |
|---------|----------------------|--------------|---|-------------|
| 1 | Andhra Pradesh | 230 | 9 | 239 |
| 2 | Assam | 28 | 14 | 42 |
| 3 | Bihar | 14 | 0 | 14 |
| 4 | Chhattisgarh | 25 | 3 | 28 |
| 5 | Daman | 2 | 0 | 2 |
| 6 | Goa | 3 | 0 | 3 |
| 7 | Gujarat | 780 | 22 | 802 |
| 8 | Haryana | 54 | 9 | 63 |
| 9 | Himachal Pradesh | 51 | 0 | 51 |
| 10 | Jammu & Kashmir | 53 | 15 | 68 |
| 11 | Jharkhand | 5 | 1 | 6 |
| 12 | Karnataka | 30 | 1 | 31 |
| 13 | Kerala | 129 | 0 | 129 |
| 14 | Madhya Pradesh | 209 | 6 | 215 |
| 15 | Maharashtra | 336 | 37 | 373 |
| 16 | Meghalaya | 2 | 0 | 2 |
| 17 | Mizoram | 15 | 2 | 17 |
| 18 | Nepal | 2 | 0 | 2 |
| 19 | New Delhi | 36 | 1 | 37 |
| 20 | North Eastern States | 276 | 0 | 276 |
| 21 | Orissa | 8 | 1 | 9 |
| 22 | Pondicherry | 4 | 1 | 5 |
| 23 | Punjab | 121 | 0 | 121 |
| 24 | Rajasthan | 54 | 2 | 56 |
| 25 | Tamil Nadu | 30 | 0 | 30 |
| 26 | Uttar Pradesh | 79 | 0 | 79 |
| 27 | Uttaranchal | 18 | 1 | 19 |
| 28 | West Bengal | 112 | 1 | 113 |
| | Total | 2,706 | 126 | 2832 |

Members of the National Steering Committee (NSC)
(As on 31st March 2014)

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Director
Inter-University Centre for
Astronomy and Astrophysics (IUCAA)
Pune

Dr. (Mrs.) Manju Singh

Joint Secretary (IUC)/MC
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

Prof. Sunaina Singh

Vice-Chancellor, The English and Foreign
Languages University (Central University)
Hyderabad

Prof. V G Talawar

Vice-Chancellor
REVA University
Bengalore

Prof. Asoke Kumar Sen

Dean
Department of Physics
Assam University
Silchar

Prof. Rohini M Godbole

Centre for High Energy Physics
Indian Institute of Science
Bengalore

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| 45 | SRM University, Kattankulathur, Tamil Nadu |
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| 31 | MATS University, Raipur, Chhattisgarh |
| 32 | Netaji Subhas Open University, Kolkata, West Banga |
| 33 | North Eastern Regional Institute of Science and Technology (NERIST), Itanagar, Arunachal Pradesh |
| 34 | Padamshree Dr. D Y Patil Vidyapeeth, Pune, Maharashtra |

| | |
|----|---|
| 35 | Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design and Manufacturing , Jabalpur, Madhya Pradesh |
| 36 | Panjab University , Chandigarh, Chandigarh |
| 37 | Patna University , Patna, Bihar |
| 38 | Punjab Technical University , Kalurthala, Punjab |
| 39 | Punjabi University , Patiala, Punjab |
| 40 | Rani Durgavati Vishwavidyalaya , Jabalpur, Madhya Pradesh |
| 41 | Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, Maharashtra |
| 42 | Sam Higginbottom Institute of Agriculture, Technology and Sciences, Allahabad, Uttar Pradesh |
| 43 | Saurashtra University , Rajkot, Gujarat |
| 44 | Saveetha University , Chennai, Tamil Nadu |
| 45 | Shobhit University, Meerut, Uttar Pradesh |
| 46 | Shoolini University of Biotechnology and Management Sciences , Solan, Himachal Pradesh |
| 47 | Singhania University , Jhunjhunu, Rajasthan |
| 48 | Sri Padmavathi Womens University , Tirupati, Andhra Pradesh |
| 49 | Teerthanker Mahaveer University , Moradabad, Uttar Pradesh |
| 50 | The ICFAI University , Dehradun, UttaraKhand |
| 51 | U P Rajarshi Tondon Open University , Allahabad, Uttar Pradesh |
| 52 | University of Agricultural Sciences, Bangalore, Bangalore, Karnataka |
| 53 | University of Calcutta , Kolkata, West Bengal |
| 54 | University of Calicut , Kozhikode, Kerala |
| 55 | University of Delhi , New Delhi, New Delhi |
| 56 | University of Kalyani , Kalyani, West Bangal |
| 57 | University of Madras, Chennai, Tamil Nadu |
| 58 | University of Mumbai , Mumbai, Maharashtra |
| 59 | Utkal University , Bhubaneshwar, Orissa |
| 60 | V O Chidambaram College of Education , Thoothukudi, Tamil Nadu |
| 61 | Veer Narmad South Gujarat University , Surat, Gujarat |
| 62 | West Bengal University of Technology , Kolkata, West Bangal |

Universities that are Getting Access to Plagiarism Detection Software

| Sl. No. | University Name |
|---------|---|
| 1 | Mahatma Gandhi University, Kottayam, Kerala |
| 2 | Cochin University of Science & Technology, Cochin, Kerala |
| 3 | Sri Venkateswara University, Tirupati, Andhra Pradesh |
| 4 | Guru Nanak Dev University, Amritsar, Punjab |
| 5 | Tamil University, Thanjavur, Tamil Nadu |
| 6 | GITAM University, Visakhapatnam, Andhra Pradesh, |
| 7 | Bharathidasan University, Tiruchirappally, Tamil Nadu |
| 8 | Sri Krishnadevaraya University, Anantpur, Andhra Pradesh |
| 9 | Calicut University, Kerala, Kerala |
| 10 | Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu |
| 11 | Guru Ghasidas Vishwavidyalaya, Bilaspur, Chattisgarh |
| 12 | North-Eastern Hill University, Shillong, Meghalaya |
| 13 | Tata Institute of Social Sciences, Mumbai, Maharashtra |
| 14 | University of Hyderabad, Hyderabad, Andhra Pradesh |
| 15 | V.B.S Purvanchal University, Jaunpur, Uttar Pradesh |
| 16 | Manipur University, Imphal, Manipur |
| 17 | Periyar University, Salem, Tamil Nadu |
| 18 | University of Kashmir, Srinagar, Jammu and Kashmir |
| 19 | University of Pune, Pune, Maharashtra |
| 20 | Guru Gobind Singh Indraprastha University, New Delhi, New Delhi |
| 21 | University of North Bengal, Darjeeling, West Bengal |
| 22 | Kannur University, Kannur, Kerala |
| 23 | Gauhati University, Guwahati, Assam |
| 24 | Karnatak University, Dharwar, Karnataka |
| 25 | Tilak Maharashtra Vidyapeeth, Pune, Maharashtra |
| 26 | The Tamil Nadu Dr. Ambedkar Law University, Chennai, Tamil Nadu |
| 27 | Shivaji University, Kolhapur, Maharashtra |
| 28 | Bundelkhand University, Jhansi, Uttar Pradesh |
| 29 | Central University of Gujarat, Gandhinagar, Gujarat |
| 30 | Pandit Ravishanker Shukla University, Raipur, Chhattisgarh |
| 31 | Kumaun University Nainital, Uttarakhand |
| 32 | Maharshi Dayanand University, Rohtak, Haryana |
| 33 | Sikkim University, Gangtok, Sikkim |
| 34 | Sambalpur University, Jyoti Vihar, Orissa |

| | |
|----|---|
| 35 | Mohanlal Sukhadia University, Udaipur, Rajasthan |
| 36 | Bharathiar University, Coimbatore, Tamil Nadu |
| 37 | Gujarat University, Ahmedabad, Gujarat |
| 38 | University of Mysore, Mysore, Karnataka |
| 39 | Himachal Pradesh University, Shimla, Himachal Pradesh |
| 40 | Avinashilingm Institute for home science and Higher education for women, Coimbatore, Tamil Nadu |
| 41 | University of Kerala, Thiruvananthapuram, Kerala |
| 42 | Central University of Himachal Pradesh, Dharamshala, Himachal Pradesh |
| 43 | Goa University, Goa, Goa |
| 44 | M.S.University of Baroda, Vadodara, Gujarat |
| 45 | S.N.D.T Women's University, Mumbai, Maharashtra |
| 46 | Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra |
| 47 | Shri Mata Vaishno Devi University(SMVDU), Katra, Jammu and Kashmir |
| 48 | Karnataka State Women's University, Bijapur, Karnataka |
| 49 | Jamia Hamdard University, Hamdard Nagar, New Delhi |
| 50 | Sree Sankara University of Sanskrit, Kalady, Kerala |
| 51 | The University of Burdwan, Bardhaman, West Bengal |
| 52 | Sardar Patel University, Vallabh Vidyanagar, Gujarat |
| 53 | Tripura University, Agartala, Tripura |
| 54 | Assam University, Silchar, Assam |
| 55 | Mangalore University, Mangalagangothri, Karnataka |
| 56 | BPS Mahila Vishwavidyalaya, Khanpur Kalan, Haryana |
| 57 | Maharaja Krishnakumarsinhji Bhavnagar University, Bhavnagar, Gujarat |
| 58 | Anna University, Chennai, Tamil Nadu |
| 59 | Hemchandracharya North Gujarat University, Patan, Gujarat |
| 60 | Kuvempu University, Jnanasahyadri, Karnataka |
| 61 | Acharya Nagarjuna University, Guntur, Andhra Pradesh |
| 62 | Sant Gadge Baba Amravati University, Amravati, Maharashtra |
| 63 | Gulbarga University, Gulbarga, Karnataka |
| 64 | Doctor Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh |
| 65 | Aligarh Muslim University, Aligarh, Uttar Pradesh |
| 66 | Gujarat Vidyapith, Ahmedabad, Gujarat |
| 67 | Osmania University, Hyderabad, Telangana |
| 68 | Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra |
| 69 | HNB Garhwal University, Srinagar, Uttarakhand |
| 70 | Devi Ahilya Vishwavidyalaya, Indore, Madhya Pradesh |
| 71 | Chaudhary Charan Singh University, Meerut, Uttar Pradesh |
| 72 | Baba Ghulam Shah Badshah University, Rajouri, Jammu and Kashmir |

| | |
|---|--|
| 73 | University of Rajasthan, Jaipur, Rajasthan |
| 74 | Chhatrapati Shahu Ji Maharaj University, Kanpur, Uttar Pradesh |
| 75 | Jawaharlal Nehru Technological University, Anantapur, Andhra Pradesh |
| 76 | Central University of Punjab, Bathinda, Punjab |
| 77 | Jiwaji University, Gwalior, Madhya Pradesh |
| 78 | Madurai Kamaraj University, Madurai, Tamil Nadu |
| 79 | Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra |
| 80 | Dayalbag Educational Institute, Agra, Uttar Pradesh |
| 81 | Delhi Technological University, New Delhi |
| 82 | Mizoram University, Aizawl, Mizoram |
| 83 | The Gandhigram Rural Institute-Deemed University, Dindigul, Tamil Nadu |
| 84 | Jain Vishva Bharati Institute, Ladnun, Rajasthan |
| 85 | Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kanchipuram, Tamil Nadu |
| 86 | Mother Teresa Women's University, Kodaikanal, Tamil Nadu |
| 87 | Deccan College Post Graduate & Research Institute, Pune, Maharashtra |
| 88 | University of Lucknow, Lucknow, Uttar Pradesh |
| 89 | IUC (IUCAA/DAE/INFLIBNET/IUAC) |
| 90 | Shri Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeetha, New Delhi |
| List of Existing 10 Universities | |
| 1 | Pondicherry University, Pondicherry, Pondicherry |
| 2 | Central University of Rajasthan, Ajmer, Rajasthan |
| 3 | The WB National University of Juridical Sciences, Kolkata, West Bengal |
| 4 | Jawaharlal Nehru University, New Delhi |
| 5 | Tezpur University, Tezpur, Assam |
| 6 | Jawaharlal Nehru Technological University Kakinada, Hyderabad, Andhra Pradesh |
| 7 | Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra |
| 8 | Jawaharlal Nehru Technological University Hyderabad, Andhra Pradesh |
| 9 | Institute of Chemical Technology, Mumbai, Maharashtra |
| 10 | Banasthali Vidyapeeth, Banasthali, Rajasthan |

DEEPAK JAYANTILAL SHAH & CO.
CHARTERED ACCOUNTANTS

T-12/A, Vikram Chambers
Ashram Road, Ahmedabad-380 009
Telephone No. 079-27546279

Information and Library Network Centre
(An Autonomous Inter-University centre of UGC)
Faculty, Gandhinagar - 382 007

CONSOLIDATED INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31 MARCH, 2014

| | F.Y. 2013-2014 (Current Year) | | F.Y. 2012-2013 (Previous Year) | | F.Y. 2013-2014 (Current Year) | F.Y. 2012-2013 (Previous Year) |
|--|----------------------------------|-----------------------|-----------------------------------|-----------------------|----------------------------------|-----------------------------------|
| | INFLIBNET Centre | N-LIST | INFLIBNET Centre | N-LIST | | |
| | E-Content | E-Content | E-Content | E-Content | | |
| INCOME | | | | | | |
| INCOME FROM SALES / SERVICES | 63,64,570.00 | 0.00 | 235,16,463.70 | 0.00 | 63,64,570.00 | 235,16,463.70 |
| GRANTS/SUBSIDIES | 375,20,000.00 | 0.00 | 468,64,000.00 | 0.00 | 375,20,000.00 | 399,01,295.00 |
| FEES / SUBSCRIPTIONS | 4,44,160.00 | 60,49,975.00 | 4,70,000.00 | 82,55,428.00 | 64,94,155.00 | 87,25,428.00 |
| 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 |
| INCOME FROM ROYALTY, PUBLICATION ETC. | 0.00 | 0.00 | 4,64,800.00 | 0.00 | 4,64,800.00 | 0.00 |
| INTEREST EARNED | 107,35,907.00 | 46,42,772.00 | 421,97,613.00 | 239,01,570.00 | 219,23,621.00 | 768,86,926.00 |
| OTHER INCOME | 10,664.05 | 0.00 | 0.00 | 0.00 | 10,664.05 | 0.00 |
| (INCREASE/ (DECREASE) IN STOCK OF FINISHED GOODS AS WORKS-IN-PROGRESS) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL (A) : | 550,75,321.05 | 106,92,747.00 | 1,130,47,476.70 | 375,94,291.00 | 727,97,810.05 | 4997,30,110.70 |
| EXPENDITURE | | | | | | |
| ESTABLISHMENT EXPENSES | 235,25,431.00 | 9,41,420.00 | 251,67,299.00 | 9,49,132.00 | 253,19,091.00 | 264,30,643.00 |
| OTHER ADMINISTRATIVE EXPENSES ETC. | 208,32,971.52 | 4492,39,574.00 | 228,15,861.50 | 1960,20,941.00 | 1678,51,974.02 | 2237,14,501.60 |
| EXPENDITURE ON GRANTS, SUBSIDIES ETC. | 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 |
| DEPRECIATION FOR PRIOR PERIOD | 452,86,792.00 | 11,21,405.30 | 6,395.95 | 0.00 | 464,15,663.25 | 0.00 |
| DEPRECIATION (NET TOTAL AT THE YEAR-END-CORRESPONDING TO SCHEDULE E) | 15,34,194.53 | 2,36,284.70 | 25,107.82 | 0.00 | 17,95,587.05 | 0.00 |
| TOTAL (B) : | 911,79,399.05 | 1435,37,684.00 | 480,05,160.80 | 1069,70,073.00 | 2413,81,715.32 | 2507,44,544.60 |
| BALANCE BEING EXCESS OF INCOME OVER EXPENDITURE(A-B) | (361,04,068.00) | (1328,44,937.00) | 3,85,099.73 | 1789,84,218.00 | (1685,83,905.27) | 2495,85,566.10 |
| TRANSFER TO / FROM SPECIAL RESERVE (SPECIFY EACH) | - | - | - | - | - | - |
| TRANSFER TO / FROM GENERAL RESERVE | - | - | - | - | - | - |
| BALANCE BEING SURPLUS/(DEFICIT) CARRIED TO CORPUS/CAPITAL FUNDS | 550,75,321.05 | 106,92,747.00 | 1,130,47,476.70 | 375,94,291.00 | 727,97,810.05 | 4997,30,110.70 |

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 : 16.06.2014

[Harish Chandra]
Admin. Officer-PA&F

[Dr. Jagdish Arora]
Director

Place : Gandhinagar
Date : 16.06.2014

sd/-

Information and Library Network Centre, (An IUC of UGC)

Page No.2

DEEPAK JAYANTILAL SHAH & CO.
CHARTERED ACCOUNTANTS

T-12/A, Vikram Chambers
Ashram Road, Ahmedabad-380 008
Telephone No.:079-27546276

Information and Library Network Centre
(An Autonomous Inter-University centre of UGC
Infocity, Gandhinagar - 382 007)

CONSOLIDATED BALANCE SHEET AS AT 31st MARCH, 2014

(Amount - Rs.)

| | F.Y. 2013-2014 (Current Year) | | F.Y. 2012-2013 (Previous Year) | | E-Content | N-LIST | E-Content | N-LIST | F.Y. 2013-2014 (Current Year) | F.Y. 2012-2013 (Previous Year) |
|--|----------------------------------|----------------------|-----------------------------------|------------------------|-----------------------|-----------------------|-----------------------|------------------------|----------------------------------|-----------------------------------|
| | INFLIBNET Centre | | INFLIBNET Centre | | | | | | | |
| CORPUS/CAPITAL FUND AND LIABILITIES | | | | | | | | | | |
| CORPUS/CAPITAL FUND | 3444,18,374.97 | 781,35,175.00 | 1058,17,091.73 | 3805,23,441.97 | 1055,51,992.00 | 2109,80,112.00 | 1055,51,992.00 | 5284,71,641.70 | 6870,55,545.97 | 6870,55,545.97 |
| RESERVES AND SURPLUS | 3213,55,989.57 | 13,57,690.00 | 31,973.77 | 1723,42,000.00 | 0.00 | 0.00 | 0.00 | 3227,45,653.34 | 1723,42,000.00 | 1723,42,000.00 |
| EARMARKED/ENDOWMENT FUNDS | 21296,93,964.88 | 0.00 | 0.00 | 13871,66,683.50 | 0.00 | 0.00 | 0.00 | 21296,93,964.88 | 13871,66,683.50 | 13871,66,683.50 |
| SECURED LOANS AND BORROWINGS | 0.00 | 0.00 | 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 | 0.00 | 0.00 |
| DEFERRED CREDIT LIABILITIES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CURRENT LIABILITIES AND PROVISIONS | 488,95,644.50 | 33,18,537.00 | 28,03,752.50 | 727,48,937.00 | 21,14,024.00 | 19,66,796.00 | 21,14,024.00 | 550,17,934.00 | 768,29,757.00 | 768,29,757.00 |
| TOTAL : | 28443,64,973.92 | 828,11,402.00 | 1087,52,818.00 | 20227,81,062.47 | 1076,66,016.00 | 2129,46,908.00 | 1076,66,016.00 | 30355,29,193.92 | 23433,93,986.47 | 23433,93,986.47 |
| ASSETS | | | | | | | | | | |
| FIXED ASSETS | 5106,16,845.52 | 15,76,568.00 | 75,331.00 | 3713,82,623.00 | 75,331.00 | 15,76,568.00 | 75,331.00 | 5122,68,744.52 | 3730,34,522.00 | 3730,34,522.00 |
| INVESTMENTS-FROM EARMARKED/ENDOWMENT FUNDS | 0.00 | 0.00 | 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 | 0.00 | 0.00 |
| CURRENT ASSETS, LOANS, ADVANCES ETC. | 23337,48,128.40 | 812,34,834.00 | 1086,77,487.00 | 16513,98,439.47 | 1075,90,685.00 | 2113,70,340.00 | 1075,90,685.00 | 25236,60,449.40 | 19703,59,464.47 | 19703,59,464.47 |
| 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 | 0.00 | 0.00 |
| TOTAL : | 28443,64,973.92 | 828,11,402.00 | 1087,52,818.00 | 20227,81,062.47 | 1076,66,016.00 | 2129,46,908.00 | 1076,66,016.00 | 30355,29,193.92 | 23433,93,986.47 | 23433,93,986.47 |

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 : 16.06.2014

[Harish Chandra]
Admin. Officer-PA&F

[Dr. Jagdish Arora]
Director

Place : Gandhinagar
Date : 16.06.2014

sdf/-

Information and Library Network Centre, (An IUC of UGC)

Page No. 1

SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2014

| | FUNDS-WISE BREAK UP | | | | | | | TOTALS | | |
|---|---------------------------|----------------------------|-------------------------------|----------------------|---------------------------|-------------------------|---------------------------|-----------------------|-------------------------------|--------------------------------|
| | Networking Grants-in-Aids | UGC-INFONET Grants-in-Aids | E-Subscription Grants-in-Aids | North Eastern Region | Excess Amt. of Asso. Mem. | UGC Website Maintenance | UGC Grants for Shodhganga | Internet Conn. at UGC | F.Y. 2013-2014 (Current Year) | F.Y. 2012-2013 (Previous Year) |
| a) Opening balance of the funds | 50,00,000.00 | 52,61,497.00 | 13647,07,878.00 | 4,853.00 | 47,69,706.50 | 8,45,860.00 | 165,76,889.00 | 0.00 | 13971,66,883.50 | 3025,09,518.50 |
| b) Additions to the Funds: | | | | | | | | | | |
| i. Donation/grants | 0.00 | 0.00 | 18500,00,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 18500,00,000.00 | 14685,57,473.00 |
| ii. Income from Investments made on account of funds | 0.00 | 0.00 | 628,37,552.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 628,37,552.00 | 0.00 |
| iii. To be recovered from UGC | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 24,99,057.00 | 24,99,057.00 | 5,92,461.00 |
| TOTAL (a+b) | 50,00,000.00 | 52,61,497.00 | 32775,45,430.00 | 4,853.00 | 47,69,706.50 | 8,45,860.00 | 165,76,889.00 | 24,99,057.00 | 33125,03,292.50 | 17716,59,452.50 |
| c) <u>Utilisation/Expenditure towards objectives of funds</u> | | | | | | | | | | |
| i. <u>Capital Expenditure</u> | | | | | | | | | | |
| - Fixed Assets | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| - Others | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ii. <u>Revenue Expenditure</u> | | | | | | | | | | |
| - Salaries, Wages and allowances | 0.00 | 0.00 | 3,74,212.00 | 0.00 | 0.00 | 6,52,651.00 | 5,50,654.00 | 6,02,600.00 | 21,80,017.00 | 0.00 |
| - Legal & Professional Fees | 0.00 | 0.00 | 2,82,586.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2,82,586.00 | 0.00 |
| - Other Administrative Exps. | 0.00 | 2,47,000.00 | 11721,70,012.62 | 0.00 | 0.00 | 84,759.00 | 59,48,496.00 | 18,96,457.00 | 11803,46,724.62 | 3744,92,769.00 |
| TOTAL (c) | 0.00 | 2,47,000.00 | 11728,26,810.62 | 0.00 | 0.00 | 7,37,310.00 | 64,96,150.00 | 24,99,057.00 | 11828,09,327.62 | 3744,92,769.00 |
| TOTAL (a+b-c) | 50,00,000.00 | 50,14,497.00 | 21047,18,619.38 | 4,853.00 | 47,69,706.50 | 1,08,550.00 | 100,77,739.00 | 0.00 | 21296,93,964.88 | 13971,66,883.50 |

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Finance and Accounts

Major expenditure reflecting INFLIBNET's activities and services over past three years are given below. A gist of Audited Accounts of the INFLIBNET Centre for the Financial Year 2013-2014 is given in the following pages.

| F.Y. / Expenditure Head | 2011-2012 | 2012-2013 | 2013-2014 |
|--|---------------------|-----------|-----------|
| Grants-in-Aid Received from the UGC | | | |
| Plan | - | - | 1,036.50 |
| Non-Plan | 512.33 | 596.31 | 375.20 |
| UGC-Infonet | - | - | - |
| E-Subscription | 10,000.00 | 14,500.00 | 18,500.00 |
| Shodhganga (ETD) | - | 173.82 | - |
| E-Content (e-Pg Pathshala) | 1,000.00 | - | - |
| Expenditures | (Rupees in Lakhs) | | |
| Capital | 23.71 | 9.04 | 20.14 |
| Operational/Administrative | 442.59 | 434.25 | 436.32 |
| Training Courses & Conference | 18.31 | 13.18 | 4.26 |
| Networking | 0.03 | 3.59 | 3.00 |
| UGC-INFONET | 431.86 | 161.01 | 2.47 |
| E-SUBSCRIPTION | 13,947.46 | 3,538.25 | 11,728.27 |
| Shodhganga (ETD) | - | 8.05 | 64.99 |
| E-Content (e-Pg Pathshala) | 0.05 | 51.71 | 66.65 |

sd/-



Information and Library Network Centre

(An Autonomous Inter-University Centre of UGC)

Infocity, Post Box No. 4, Gandhinagar - 382 007

Tele.: + 91 79 23268000, 23268100, Fax: + 91 79 23268222

Email : director@inflibnet.ac.in

Web: <http://www.inflibnet.ac.in>