

Annual Report

April 1, 2012 to March 31, 2013

Shodhganga UGC- Infonet Digital Library Consortium
N-JIST IndCat
e-PG Pathshala
Shodhgangotri
Open Journal Access System
VIDWAN InfoPort
SOL2.0



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

INFLIBNET Centre

Annual Report

(April 1, 2012 – March 31, 2013)



**Information and Library Network Centre
Gandhinagar
2013**

From the Director's Desk

Dr. Jagdish Arora **Director**



Moving to our new institutional building in January 2013 marked a milestone in the history of INFLIBNET Centre. The Centre moved from the Residential flats in Gujarat University Campus that was its abode for more than two decades to its own magnificent 7-storeyed edifice at Infocity, Gandhinagar. The building is designed by internationally acclaimed architect and renowned academician Dr. Balkrishna V Doshi of Vastu-Shilpa in consultation with other experts in the field of sustainable, eco-friendly and energy-efficient building. The Building is well-furnished with modern furniture and fixtures custom-designed by M/s Godrej Interio. It is well-equipped with campus-wide fibre-optic local area network. The system integration work for passive and active state-of-the-art low voltage component is being done by M/s Siemens Enterprise Communication Pvt. Limited. The network of the Institute Building includes layer 3 core switches with virtualization 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, board room solutions, public address system and AV solution, high resolution video conferencing solution, state-of-the-art auditorium, visitor management system, dedicated and sophisticated tier-3 Data Centre with precision A/C, CAT 7A cabling with OM4 Grade Fibre, Building Management System (BMS) with automated fire detection, fire suppression, access control, biometric access control, sophisticated UTM (Unified Thread Management System).

The Centre made significant progress in all its projects and programmes. I am pleased to present a gist of important activities and services during the year under report.

On the recommendation of the INFLIBNET Centre, the UGC allocated funds to 24 universities during XI/XII Plan for automation of their libraries. All the 24 universities have signed MoU with the INFLIBNET Centre for contributing their bibliographic records to the Union Catalogues of the Centre. Significant developments were made in the Union Database of the Centre both in terms of number of records added to the Union Catalogues as well as improvements in search and browse interface. The union database contains bibliographic description, location and holdings information

for books (1,27,37,400 records from 156 institutions), serials (31,500 unique titles with holdings information for 213 universities), theses (2,52,885 records from 286 institutions) in all subject areas. The IndCat also include CEC's Video Database consisting of 15,000 records of educational video programmes produced by the CEC and its EMMRCs. The Centre received 5,27,679 updated bibliographic records from 5 member universities and 12 universities started contributing their bibliographic records to the Union catalogue afresh. New web-based platform was developed for management of serials and theses database that would facilitate easy maintenance and updation of theses and serials database.

Major policy-related changes were made for updation of Vidwan Database that was earlier open to the entire academic community for voluntary submission of their profiles. The database is now being populated using the following three methods: i) By invitation to renowned experts ii) By nomination sought from VCs and Directors of the institutions; and iii) Voluntary contribution from those who qualify the minimum prescribed criteria. The number of records available in expert database as on 31st March, 2013 has grown to 9,378. 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 SOUL Software established itself as one of the most popular, state-of-the-art integrated library management software designed and developed by the INFLIBNET Centre. The software is compliant to international standards such as MARC 21, Unicode, SIP and N-SIP, FRBR, etc. As on 31st March, 2013, the software has 2,706 installations across the country. During the year under report, 248 new installations were commissioned including 184 copies that were sold to new users and 64 copies that were offered free-of-cost to the existing users of SOUL version 1. Considering the demand of the users and current trends, development of web-based version of SOUL Software has been initiated.

Notable progress was made under all open access initiatives launched by the Centre in the year 2010. Shodhganga, the digital repository of theses and dissertations submitted to universities in India, grew both in terms of number of theses submitted in the repository, as well as number of universities who signed MoU with the INFLIBNET Centre for joining this initiative. As on 31st March, 2013, 108 universities have submitted their theses into the repository and a total number of 112 universities have signed MoU with INFLIBNET Centre on Shodhganga including 60 universities who signed the MoU during the financial year under report. The total number of theses in the repository grew to 6,350. Moreover, 37 universities that are signatory to MoU with INFLIBNET Centre on Shodhganga, have received funds from UGC as incentive for joining this initiative. These universities can now digitize backlists of their theses, set-up ETD laboratory and get access to anti-plagiarism package through INFLIBNET Centre. Shodhgangotri that compliments Shodhganga also grew in

terms of number of synopsis submitted into the repository. The repository now hosts 1,317 approved synopses.

Open Journal Access System (OJAS), a platform offered to universities and institutions for publishing open access journals currently hosts fourteen journals and IR @ INFLIBNET, that hosts papers published in the proceedings of the CALIBER and PLANNER hosts 1,274 full-text articles.

The Centre operates two consortia namely UGC-Infonet Digital Library Consortium and N-LIST to extend access to e-resources to universities and colleges respectively. Both the initiatives grew well during the year under report.

The UGC-INFONET Digital Library Consortium provides current as well as archival access to more than 8,500 core and peer-reviewed electronic journals and eleven bibliographic databases from 28 publishers including university presses, scholarly societies, commercial publishers and aggregators in different disciplines. 204 universities including 14 national law schools / universities and 5 IUCs of the UGC are being provided differential access to subscribed e-resources. More than 204 private universities and other institutions have joined the Associate Membership Programme of the Consortium to get access to e-resources subscribed under the Consortium. The usage of e-resources grew by 12.01% from 2011 to 2012.

The N-LIST Programme, funded by the MHRD under the National Mission of Education through ICT, grew both in terms of number of resources being provided to the colleges as well as number of colleges who were joined the initiative during the period under report. A total number of 2,978 colleges have joined the N-LIST programme. These colleges are getting access to more than 6,000 e-journals and 97,333 e-books. User ID and Passwords were issued to 4,78,278 users from registered colleges and efforts are being made to enroll more colleges through advertisements as well as by organizing training and orientation programmes. JSTOR, one of the most popular resources amongst the academic community was added in NLIST programme for the colleges during the year.

It may be noted that N-LIST programme uses a highly innovative subscription and access model wherein one subscription is paid for 200 colleges and access to users from colleges is provided through an authentication server set-up at INFLIBNET Centre. The model enables the Centre to enroll un-restricted number of colleges and associated users at any time during the year. NLIST project is highly cost-effective since average cost of e-journal is as low as Rs. 4.39 per college per journal and average cost per book per college varies from Rs. 0.06 in case of Ebrary to Rs. 21.08 in case of Hindustan eBooks.

Imparting training to manpower working in the university and college libraries in the use of IT is an important objective of the Centre and has been given due priority. 535 training programmes, workshops and seminars focusing on the library automation and networking have so far been conducted benefitting 42,942 participants. A total number of 105 training programmes on SOUL installation and operations have been organized so far including 4 training programmes during the year under report. 13 User Awareness Programme on e-resources subscribed under the UGC-Infonet Digital Library Consortium and NLIST were organized in various universities and colleges during the year. Besides, three specialized training programmes on Institutional Repository using DSpace, IPR with Special Reference to Patents and Copyright and Creation and Management of Digital Collections were organized during the year.

While the Centre has winded-up the UGC-Infonet Connectivity Programme as most of the universities have migrated to NKN / NME-ICT Connectivity Programme, proposal was submitted to the UGC for "Reformatted UGC-Infonet" where provision has been made for universities to strengthen their computer and network infrastructural facilities including video conferencing facilities, computer laboratory and local area network enabling them to make better use of Internet bandwidth made available to them through NKN / NME-ICT.

The 9th CALIBER-2013 was organized in the new building of INFLIBNET Centre, Infocity, Gandhinagar from 21st to 23rd March, 2013 on the theme "Library Vision 2020: Moving towards Future". The main theme of the convention was divided into three sub-themes, namely "Migration towards Future", "Collaborative Library Services" and "Open Access and Open Content". More than 300 delegates registered for the convention including delegates from Sri Lanka, UK and USA. Out of 200 submissions, 51 papers were selected for presentations and 23 papers were selected for poster presentations. The participants, guests and staff members of the Centre thoroughly enjoyed the physical infrastructure and facilities available in the new Institutional Building. The Cultural programme and Dinner on the Plaza in the new Building was an enthralling experience for everyone.

We were indeed lucky to have Padmavibushan Prof. Yash Pal, National Research Professor for inauguration of CALIBER 2013. The idea for setting-up INFLIBNET Centre as well as other IUCs was mooted by Prof. Yash Pal as the then Chairman of the UGC. Prof. Balakrishna V Doshi, Chief Architect of Vastu Shilpa Consultants and Architect for the Institute Building was also felicitated during the inaugural function of CALIBER 2013. Prof. S K Khanna, Former Chairman, Governing Board, INFLIBNET, Dr. Jayanti S Ravi, IAS, Commissioner of Higher Education, Govt. of Gujarat and Dr. R K Chadha, Additional Secretary, Lok Sabha, were other dignitaries present during the Inaugural Session of CALIBER 2013. The Convention was highly successful both in terms of number of participants as well as academic content.

Substantial progress was made under the project named **e-PG Pathshala** assigned to the INFLIBNET Centre by the UGC. Besides administrative and technical responsibilities of the project, the Centre is also responsible for creating content in library and information science as well as in information technology. The Centre has configured an Open Access Learning Management System to host e-content created in the project as well as developed e-Pathshala Management System 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.

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

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



(Jagdish Arora)

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 and 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.

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;

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- ▶▶ 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. Physical Infrastructure for the INFLIBNET Centre

The INFLIBNET Centre has moved in January 2013 from its premises in Gujarat University Campus to its new Institute Building constructed at Infocity, Gandhinagar on the land measuring 10,000 Sq. Mtrs. allotted to the Centre by the Government of Gujarat, free-of-cost. The new building is located in the Infocity, Gandhinagar amidst reputed institutions such as NID, DAIICT and NIFT.

The building of the Centre is designed by internationally acclaimed architect and renowned academician Dr Balkrishna V Doshi of Vastu-Shilpa in consultation with other experts in the field of sustainable, eco-friendly and energy-efficient building. Services of M/s. Katira Construction and M/s Malani Contractors, civil contractors, were hired for constructing the Administrative & Academic Blocks and Residential Blocks of the Building respectively and M/s. Ananjiwala Consultants, Project Management Consultants for quality control and for supervising the construction activity. The work for air-conditioning of the building is being done by M/s Voltas and M/s. Siemens is system integrator for IT and low voltage infrastructure.

The construction of the Institutional building was started soon after Bhoomi Pooja on 27th October 2009. The Foundation Stone for the Building was laid by the then Hone'ble Chairman, UGC and President, INFLIBNET Council Prof. Sukhadeo Thorat on 27th January, 2010. In the first phase, total built-up area of 1,20,000 sq. ft. has been completed that include Academic and Research Blocks, Administration, Library, Auditorium and Lecture Halls. In the second phase, 65,000 sq. ft. built-up area is being undertaken that includes Hostels, Guest House, Staff Quarters, Director's residence, etc.



Fig. 1: INFLIBNET Centre Building

As on March 31, 2013, the physical construction of academic and administrative block of the building has been completed from basement to 7th floors except for minor snag list. The construction of Residential Block of the building that was started in October 2011 is expected to be completed by December, 2013. The current composition of the Building committee is given in Appendix I.

5. Governance

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

5.1. Governing Council

Governing Council (GC) is an apex body of the Centre chaired by its President, ex-officio Chairman of the UGC. The Council has seven ex-officio members and three nominated members. The members of the Governing Board are also members of the Council, as such, total number of members of the Council is 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 II.

5.2. Governing Board

Governing Board (GB) manages, administers, directs and controls the affairs of the Centre as per Rules and Bye-laws of the Centre. The Governing Board is headed by a Chairperson, who is an eminent academician in the areas of relevance to the Centre and is appointed by the President of the Council. The Governing Board has 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 III.

5.3. Finance Committee

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

6. Human Resources

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

7. 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 working groups of the Centre during the period under report are given below:

7.1. 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.

7.2. 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 1,27,37,400 records from 156 participating universities in different bibliographic formats, out of those records, 73.41 lakhs records are converted into one common format and merged into IndCat with records having holding 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	1,27,37,400	156
Theses	2,52,885	286
Serials	31,500	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.

7.2.1. 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 2 depicts screenshot of IndCat.

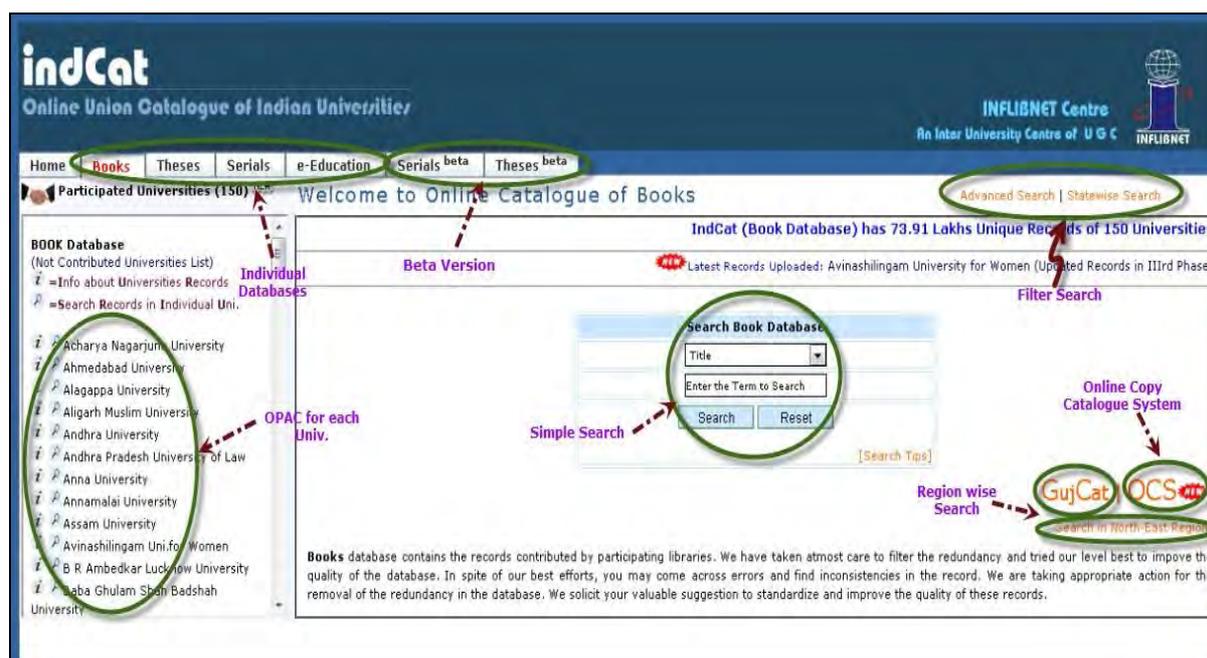


Fig. 2: Search Interface for Books, Theses, Serials & Video Databases with Beta Version

Beta Version for Theses & Serials Databases

Figure 3 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, Serials, e-Education, Serials beta, and Theses beta. The 'Serials beta' and 'Theses beta' tabs are highlighted. Below the navigation, there is a search bar with the text 'Library Automation' and a search button. The search results are displayed in a table format, with columns for Title, Researcher, Guide, University, Department, and Year. The first record is 'Labeled graphs and matrices: automation to real' by Saroch, Vandana, published in 1995 at Jawaharlal Nehru University, New Delhi, Department of Engineering. Other records include 'Micro-computer applications to instrumentation and automation' by Sharma, P. C. (1986), 'Philosophy and technique of library historiography in hindi' by Sharma, Shiv Kumar (1978), 'Critical study of the organisation and utilisation of libraries in higher educational institutions in kerala' by Bhavakutty, M. A. (1984), and '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' records, including 'University' (Nagpur University [6], University of Pune [5], Osmania University [3], etc.) and 'Department' (Department of Library [4], Department of Commerce [2], etc.).

Fig. 3: Beta Version for Theses & Serials Databases

Figure 4 displays bibliographical details with MARC Tag

The screenshot shows the MARC Tag view for a bibliographic record. The view is organized into three tabs: Detail, Marc View, and Marc Tag view. The 'Marc Tag view' tab is selected, displaying a list of MARC tags and their corresponding values. The tags and values are as follows:

- 0000000cam a2200000ua 4500
- 001101758
- 003INFLIBNET
- 008t1995|||||||000 ||eng c
- 016|aINFLT00000101758
- 0410|aeng
- 0500|a010
- 020|cNUL-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|aSaroch|bVandana|eResearcher
- 3620|a1995

Fig. 4: Bibliographical Details in MARC Format

7.2.1.1. Union Catalogue of Books

Abhishek Kumar, Scientist B (CS)
Vaishali Shah, Scientist B (LS)
Dharmesh Shah, STA-I (CS)
Seema Chavda, Project Officer (LS)
Sonal Vaghela, Project Assistant (LS)

7.2.1.1.1. Process for Building IndCat

Process of building IndCat commences with creation of bibliographic records in participating libraries and their receipt at the INFLIBNET Centre. Figure 5 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. 5: 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 6 depicts bibliographic details of searched records.

indCat
Online Union Catalogue of Indian Universities

INFLIBNET Centre
An Inter University Centre of U G C

Home Books Theses Serials e-Education

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

ISBN: 1-85604-295-2
Title: Planning for library automation: a practical handbook, John M.Cohn, Ann L.Kelesey and Keith Michael Fields/ revised and adapted by Graeme Muirhead
Author: Cohn, John M
Kelesey, Ann L
Fields, 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:

Bibliographic Details of Searched Record with University Holdings

Book is available at following Universities/Institutions

No.	University/Institute	Class Number	Accession No.	Email Request
1	University of Calcutta	025.02854+ C661rev.ed	387939	<input type="button" value="Request"/>

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Fig. 6: Bibliographic Details of a Searched Record

7.2.1.1.2. Functions and Features of IndCat

i) Restrict Search within a University / State

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.

7.2.1.1.3. Bibliographical Records for Books added during Year 2012-2013

The Centre received data from twelve universities in different format in phase I as per the details given in Table-2 below.

Sl. No.	University Name	Month	No. of Records	Data Format/Software
1	Shri Mata Vaishno Devi University, Katra (J&K)	Apr-12	6983	ISO Format (not in CCF or MARC)
2	West Bengal University of Technology, Kolkatta, (West Bengal)	Apr-12	15007	MARC ISO
3	Kannur University, Kannur (Kerala)	Apr-12	28503	Soul 1.0 Backup (CCF ISO)
4	Indian Institute of Technology, Hyderabad (Andhra Pradesh)	Jun-12	8480	MS-Excel
5	Deenbandhu Chhotu Ram University of Science & Technology, Murthal (Haryana)	Jul-12	24211	Libsys (Ms-Excel)

6	Dharmsinh Desai University, Nadiad (Gujarat)	Jul-12	16063	Soul 1.0 Backup (CCF ISO)
7	Dravidian University, Kuppam (Andhra Pradesh)	Jul-12	32758	Soul 1.0 Backup
8	Sree Sankaracharya University of Sanskrit, Kalady (Kerala)	Jul-12	42822	Alice (MARC)
9	Karnataka State Women`s University, Bijapur (Karnataka)	Jul-12	60165	MS-Access
10	Dr. B R Ambedkar open Univ, Hyderabad (Andhra Pradesh)	Aug-12	89402	ISO (not in CCF)
11	Rajiv Gandhi Prodyogiki Vishwavidhyalaya, Bhopal (Madhya Pradesh)	July-12	33,673	MS-Excel
12	GLA University, Mathura (Uttar Pradesh)	Mar-13	11568	MARC ISO

Table 2: Details of Bibliographic Records Received from 12 Universities in Phase-I

The Centre received updated data from five universities in different format as per the details given in Table-3 below.

Sl. No.	University Name	Total Received Records	Earlier Received Records	Updated Records	Data Format/S software
1	Banaras Hindu University, Varanasi (Uttar Pradesh)	2,83,408	4,992	2,78,416	Soul 2.0
2	Gujarat Vidhyapith, Ahmedabad (Gujarat)	5,38,210	4,41,868	96,342	Soul 1.0
3	Gauhati University, Gauhati (Assam)	1,21,482	2,135	1,19,347	Soul 2.0
4	North Maharashtra University, Jalgaon (Maharashtra)	50,140	19,216	30,924	Soul 2.0
5	Periyar University, Salem (Tamil Nadu)	28,229	25,579	2,650	MARC
	Total Records	10,21,469	4,93,790	5,27,679	

Table 3: Updated Bibliographic Records Received from five Universities

During the period under report, the Centre has merged bibliographic records of 11 universities in IndCat as per the details given in Table 4 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.

Sl. No.	University Name	Received Records	*Duplicate Records	#Matched Records	+Merged Records	Data Format/Software
1	Indian Institute of Technology, Bhubaneswar (Orissa)	1011	1	52	958	MARC
2	Shri Mata Vaishno Devi University, Katra (J&K)	6983	493	669	5821	ISO (not in CCF or MARC)
3	Kannur University, Kannur (Kerala)	28460	1281	935	26244	Soul 1.0 Backup
4	West Bengal University of Technology, Kolkata (West Bengal)	14836	9175	0	5661	MARC
5	Pravara Institute of Medical Sciences, Loni (Uttar Pradesh)	20299	7042	0	13257	MS-Excel (12 Files)
6	Deen Bandhu Chhotu Ram University of Science & Technology, Sonapat (Haryana)	24209	12285	237	11687	Libsys (MS-Excel)
7	Dr. B R Ambedkar open Univ, Hyderabad (Andhra Pradesh)	89,399	3726	1262	84411	ISO (not in CCF)
8	Sree Sankaracharya University of Sanskrit, Kalady (Kerala)	42,806	147	353	42,306	MARC (Alice)
9	NALSAR University of Law, Hyderabad (Andhra Pradesh)	14,314	97	318	13,899	MARC (VTLS)
10	Indian Institute of Management, Bangalore (Karnataka)	1,14,549	736	7816	105997	MARC
11	Indian Institute of Technology, Hyderabad (Andhra Pradesh)	8467	3798	0	4669	MS-Excel

*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 4: Details of Merged Bibliographic Records of 11 Universities in IndCat using UCMS software

A decision was taken to widen the scope of union databases to cover all universities and other institutions. As such a letter was sent to 415 universities including institutions of higher education that are not covered under the purview of UGC requesting them to contribute their bibliographic records. In response, 20 universities have sent their data in different formats. Records from 19 universities are being merged in the union catalogue out of 20 universities.

Table-5 given below provides no. of unique and duplicate records (holding) added to the Union Database of Books during in year under report.

Sl. No.	Details	Before April 2012	From April 2012 to March 2013	No. of Records added During the year 2012-2013
1	Unique Records	70,03,418	73,14,110	3,10,692
2	Holding Records	75,59,337	78,75,400	3,16,063

Table 5: Bibliographic Records Authenticated and Merged in Union Database (IndCat)

7.2.1.1.4. Growth of 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 127 lakh records in 2013 as depicted in Table 6 and Figure 7 given below. List of universities and number of records contributed by them are listed in Appendix VI.

Year	Received Records (in lakhs)	Unique Records (in lakhs)
1999	6.5	2.7
2003	12	5.8
2007	82	30.3
2011	119	61.8
2013	127	73

Table 6: Status of Book Data from 1999 to 2013

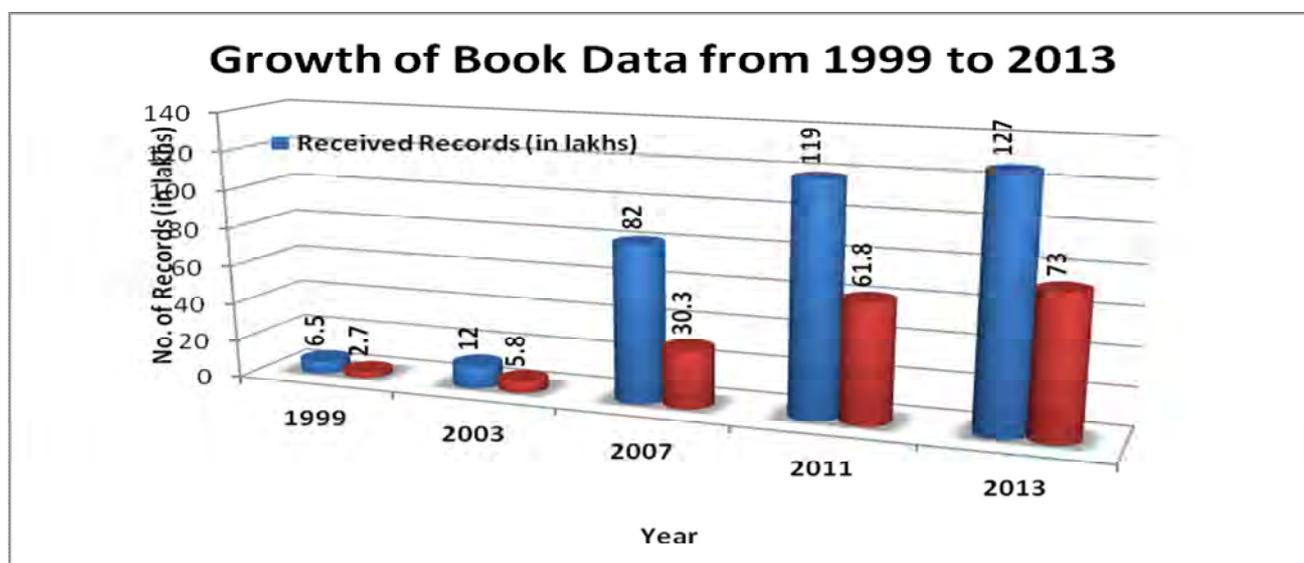


Fig. 7: Growth of Union Catalogue of Books

7.2.1.1.5. 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 interfaced 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

7.2.1.1.6. Two-day Induction Programme on Library Automation, INFLIBNET Centre, Ahmedabad, 19th-20th July, 2012

The Centre has organized two-day Induction Programme on library automation from 19th - 20th July 2012 at INFLIBNET Centre, Ahmedabad for Librarians/Representatives of Universities that were given financial aid under Library Automation scheme of the UGC during the XI Plan Period. Smt. Vaishali Aditya Shah, Scientist-B (LS), INFLIBNET Centre welcomed the participants and dignitaries to the Workshop. The Workshop was inaugurated by Dr. Jagdish Arora, Director, INFLIBNET Centre, Ahmedabad. Dr. Arora, in his inaugural address, highlighted the importance of library automation and union catalogue. He emphasized to the participants that they need to contribute bibliographic records of their libraries in standard bibliographic format for INFLIBNET's Union Catalogue (IndCat). Shri H G Hosamani, Scientist-C (LS), INFLIBNET Centre proposed a warm vote of thanks. A total no. of 20 participants attended the workshop from universities that have received grant from the UGC for library automation.

7.2.1.1.7. Major Achievements during Financial Year 2012-13

- ▶▶ Bibliographic data of books for 11 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 basis of 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 will include all databases i.e book, theses, serial and CEC's Video records. Through this version, university may update their records directly through login based system;
- ▶▶ Updated bibliographic data was received from five universities in second & third phase;
- ▶▶ Organized two-day induction programme on library automation on 19th and 20th July 2012 at INFLIBNET Centre, Ahmedabad for Librarians/representatives of universities that were given financial aid under Library Automation Scheme of the UGC during the XI Plan Period. Total 13 universities have contributed their bibliographic records to INFLIBNET Centre out of 24 universities. Remaining universities will contribute their records soon;

-
- ▶▶ A decision was taken to widen the scope of union databases to cover all universities. As such, a letter was sent to 415, universities including institutions of higher education that are not covered in the purview of UGC requesting them to contribute their bibliographic records. In response, 20 universities sent their data in different data format/software i.e. VTLIS, Libsys, Koha, Soul 2.0, MS-Excel, Soul 1.0 etc. Bibliographic data from 19 Universities have already been converted, checked and uploaded in INFLIBNET's Union Catalogue (IndCat).
 - ▶▶ Features and functionalities of UCMS were further enhanced. Significant improvement was made in the process of merging of bibliographic data into union database.

7.2.1.2. Union Catalogue of Serials

Dinesh Ranjan Pradhan, STO (LS)
Kuldeep Metieda, Project Associate (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 category, 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" 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 in more than 210 universities / institute libraries along with its holdings information (includes available and missing volumes of the journals) in participating libraries. The Serial Database has over 31,500 unique titles with holdings information for 213 universities. Each bibliographic records for a serial contains title, publisher, frequency, year of publication, homepage URL and subject headings along with holdings details and names of the universities.

7.2.1.3. Union Catalogue of Theses

Abhishek Kumar, Scientist B (CS)
Vaishali Shah, Scientist-B (LS)
Swyamprakash, Project Associate (CS)
Alpa Acharya, Project Assistant (LS)

The Union Catalogue of Theses consists of bibliographic records of doctoral theses submitted to the universities in India. The database contains 2,52,885 unique bibliographic records of the theses awarded by 286 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 2,52,885 records as on March 31, 2013 from 286 universities over a period of 18 years.

The Centre receives a copy of notification on award of Ph.D. thesis from more than 81 universities. Table 7 and Figure 8, given below; depict growth of theses database from 1995 to March 2013.

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

Table 7: Growth in Number of Records in Theses Database: 1995 – 2013

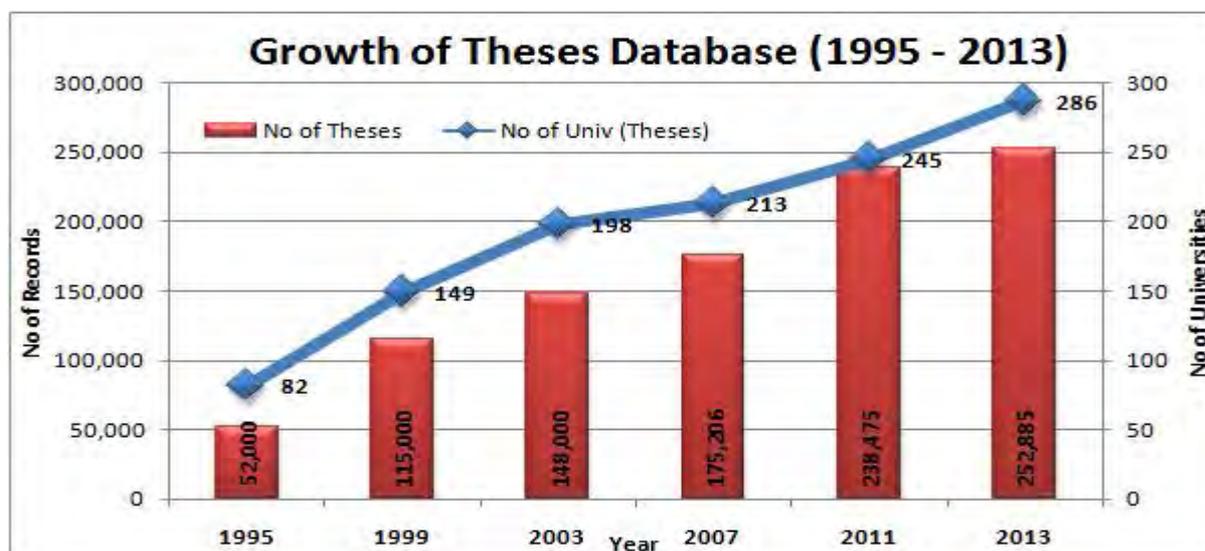


Fig. 8: Year-wise Growth of Theses Database

These 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 VI.

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

Kannan P, Scientist B (LS)

Abhishek Kumar, Scientist B (CS)

Alpa Acharya, Project Assistant (LS)

Swyamprakash Rajput, Project Associate (CS)

VIDWAN is the premier database of profiles of scientists / researchers and other 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 database contains 9,378 profiles of experts from 645 leading academic institutions, R&D organisations including IIT, CSIR, DRDO, etc. Consistent attempts have been 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 databases can be searched on parameters such as name, designation, area of expertise, organisation, state, etc. 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. Expert database is committed to excellence and value. Experts can provide a link to text books, articles and other additional sources available on their website. Figure 9 depicts screenshot of VIDWAN: Expert Database website.



Fig 9: VIDWAN: Expert Database @ INFLIBNET Centre

The main aims and objectives of expert database is i) quickly and conveniently provide information about experts to peers, prospective collaborators, funding agencies, policy makers and research scholars in the country; ii) establish communication directly with the experts who possess the expertise needed by users; iii) identify peer reviewers for articles and research proposals; iv) create information exchanges and networking opportunities among scientist and v) discover prospective collaborators for on-going research projects.

7.3.1. Major activities Performed for the Expert Database

During the period under report, University Expert Database (1999) and Expert Database in Science and Technology (2001) were merged and rechristened as VIDWAN: Expert Database. The profile of the experts were categorized as per the Web of Science subject categories and they were grouped into eight major areas including Agricultural Sciences, Biological Sciences, Chemical Sciences, Physical Sciences, Medical & Health Sciences, Engineering & Technology, Social Sciences and Arts & Humanities. Further, each major area has 268 subfield of competence. This enables the expert to choose at least one subfield of competence while submitting their profile information. The institutions are organized into seven categories such as Institutions of National Importance, Central University, State University, Deemed University, R & D organisation, Technical Institute and Other Institute, which enable the expert to choose the organisation category, while submitting their profile. About 856+ new profiles have been added to the database, which is received through invitation and voluntary registration. During the period under report, 3,500+ profiles have been verified and updated through email and their organisation website. Figure 10 and figure 11 depict number of experts & their subject category and geographical region.

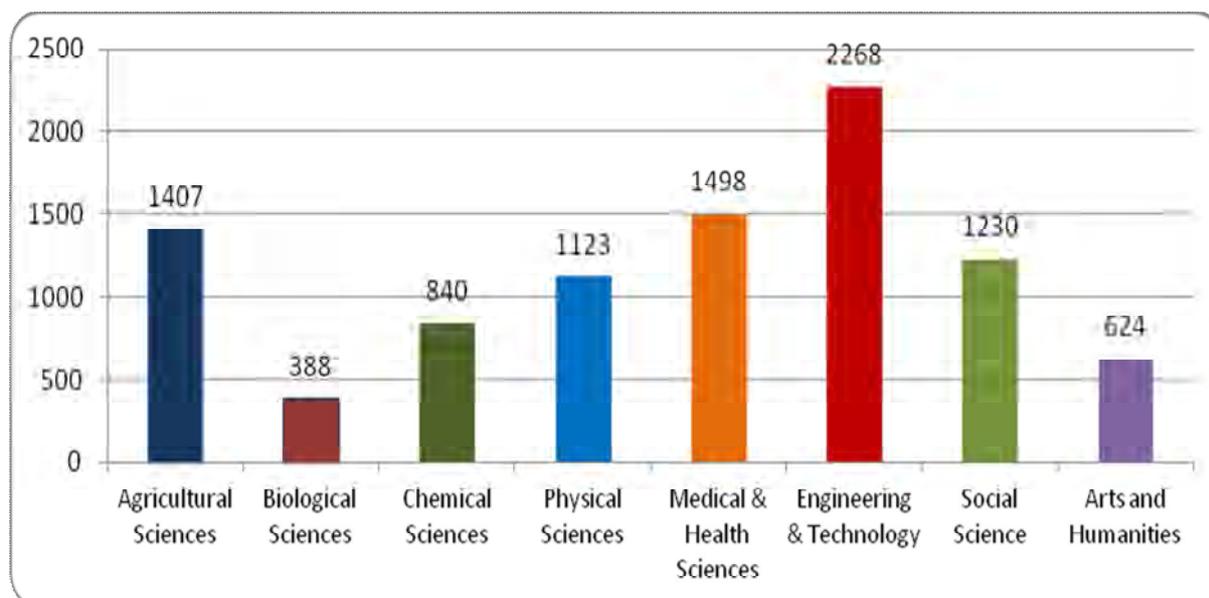


Fig 10: Number of Experts and their Subject Category in Vidwan Database (Web of Science Subject Category)

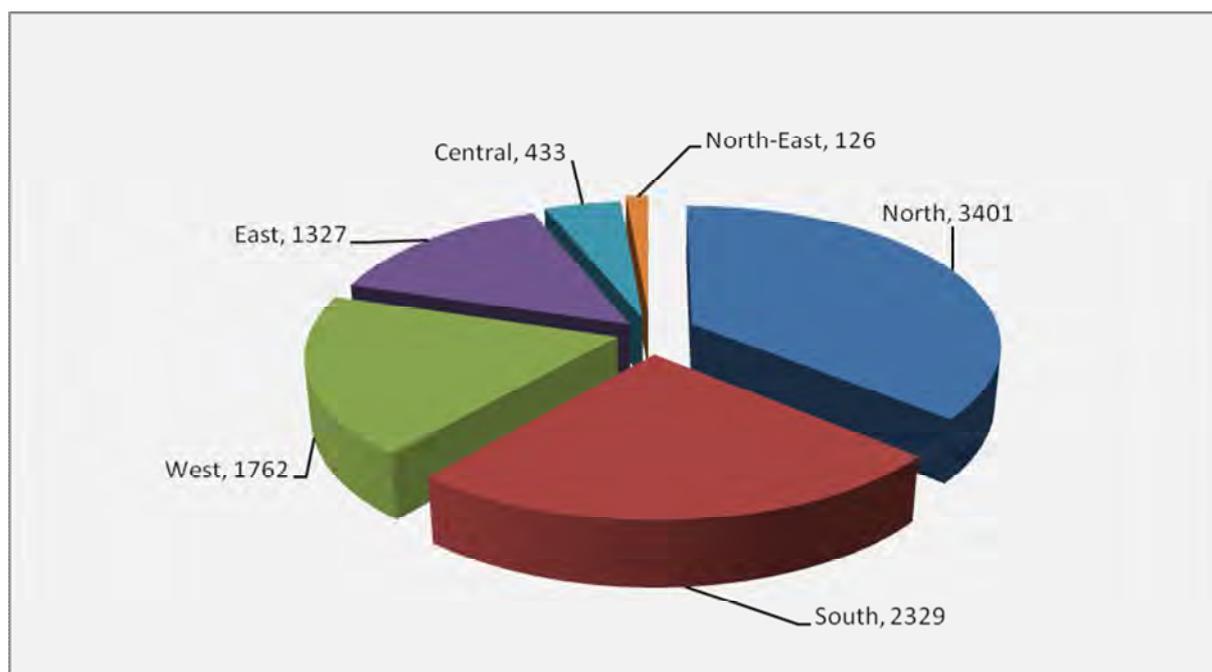


Fig 11: Region wise Number of Experts in Vidwan Database

7.4. Research Projects Database

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

The Research Project Database provides details of completed and ongoing projects carried out by faculty members working in universities and institutions across the country. At the end of the period under report, the number of records in the database has grown up to 14,835. 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 funded minor research projects were requested through letters and e-mails to submit softcopy and print copy 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/>).

7.5. Software R&D Group

7.5.1. SOUL 2.0 (<http://www.inflibnet.ac.in/soul/>)

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

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 including new WebOPAC, provision for circulation of loose issues 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 2,706 institutions across the country as on 31st March, 2013.

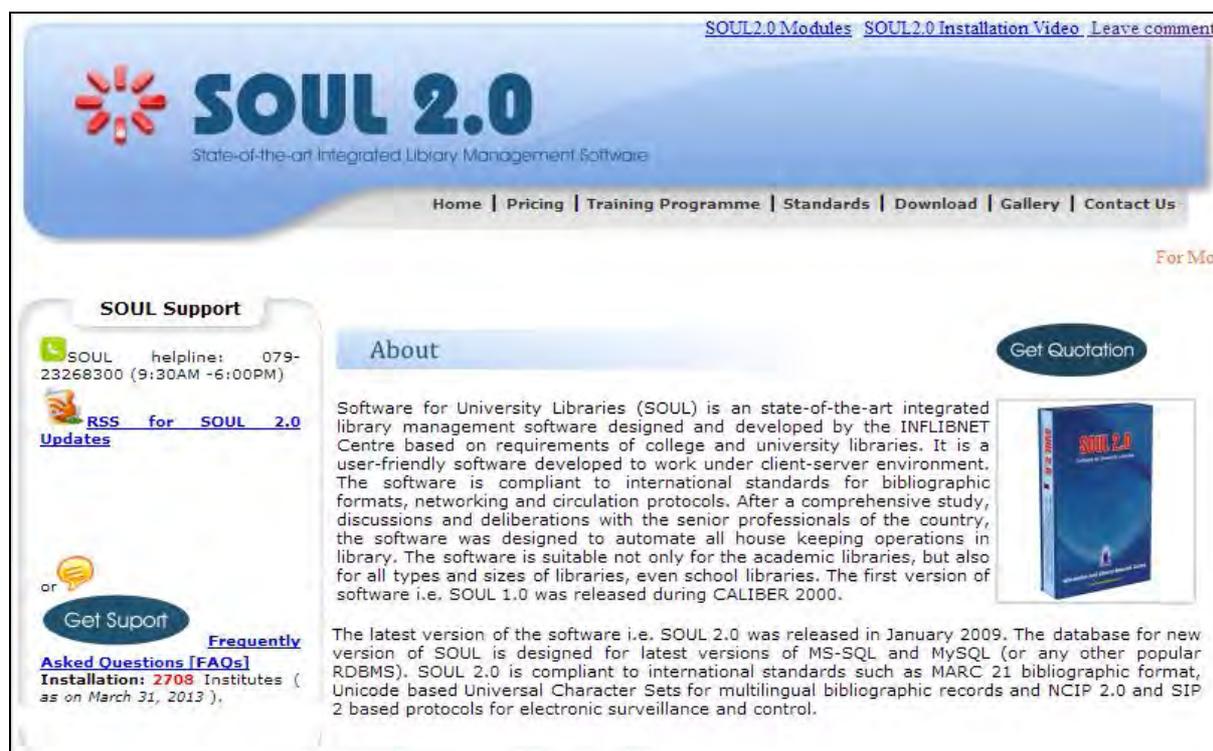


Fig. 12: Website for SOUL 2.0

A separate website is maintained for the SOUL 2.0 as shown in Figure 12. The web site provides detailed information about SOUL 2.0.

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

7.5.1.1. 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 tailored as per requirement of specific libraries. Moreover, client's existing data (in any format) is converted to SOUL 2.0 compatible-format on payment basis. During the year under report, more than 17 institutions' bibliographic data in different formats i.e. MS SQL, MS Excel, MS Access, etc., were converted into SOUL 2.0 compatible format. Banaras Hindu University's huge bibliographic data conversion from NewGenLib to SOUL 2.0 was also accomplished. More than 1.46 lakh bibliographic records were processed and converted into SOUL 2.0 compatible format during the year. Besides, several customisation requests were also handled.

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

7.5.1.2. SOUL-Web Edition

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

Based on users need and current trends, developments of web-based version of SOUL have been initiated. The web edition of SOUL would be platform independent that would run on any operating system (i.e., Linux, Windows). 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. Currently administration and circulation modules of SOUL web edition are under development.

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

7.5.1.3. SOUL Query Management System (SQMS): Web-based Interface for SOUL 2.0 Customer Support and Integration with SOUL Sales

Yatrik Patel, Scientist D (CS)
Swapnil Patel, Scientist B (CS)
Divyakant Vaghela, Scientist B (CS)
Vijay Shrimali, STA (CS)
Nabila Shaikh, SOUL Support
Kamlesh Vegad, SOUL Support

SOUL Query Management System (SQMS) is designed to manage user's query on SOUL software. The system is used for extending online support for SOUL software and for handling queries of SOUL users. SQMS consists of two modules i.e. System User and SOUL Users.

System User module is designed for use of administrator to monitor and manage the queries fed to SQMS. System User module provides system user's list, queries received list, query details, query status, query track, etc. SOUL User module is designed for use by the end users for logging-in their queries. All SOUL users are end-user of this system. Users can perform operations like feed queries, check status of their queries, add details of contact person from the institute including their institute details, etc.

Although SQMS was under testing since last year, it has been decided to integrate other operations being performed, i.e. generation of quotation, order processing, payment settlement, dispatch tracking and various reports as suggested by SOUL Sales Support Unit. The system is now fully functional and ready for launch after fine-tuning.

Technologies: Visual Studio .Net, SQL Server 2005

7.5.2. 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 institutes of higher learning in the process of creation and maintenance of institutional repositories. Centre is using self-developed expertise in open source software like DSpace, Linux, Pevland 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 Jawaharlal Nehru University, New Delhi, Central University of Jharkhand, Ranchi, Bharti Vidyapith, Pune, Nirma University Ahmedabad over phone and via remote login to setup their repositories on their own.

This group is also responsible to support and maintain INFLIBNET's Institutional Repositories @INFLIBNET as well as other open access initiatives like ShodhGanga and ShodhGangotri.

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

Abhishek Kumar, Scientist B (CS)
Dinesh Ranjan Pradhan, STO (LS)
Swyamprakash Rajput, Project Associate (CS)
Jaynil Gandhi, Project Associate (CS)

The INFLIBNET Centre 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 13 depicts New Web-based Platform for Serial Database.

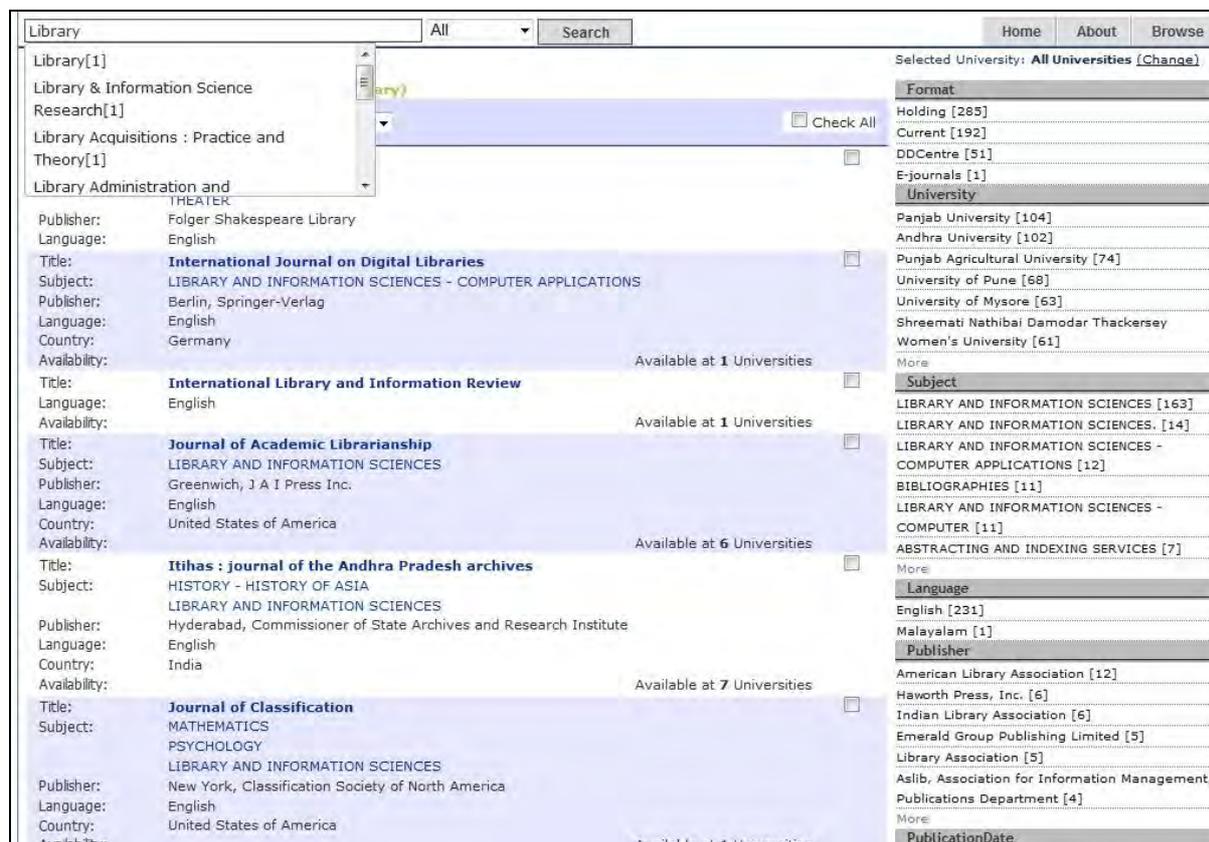


Fig. 13: New Web-based Platform for Serials Database

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 to theses database. Theses database also facilitate navigation from

bibliographic records available in IndCat to full-text theses available in Shodhganga. Figure 14 depicts New Web-based Platform for Theses Database.

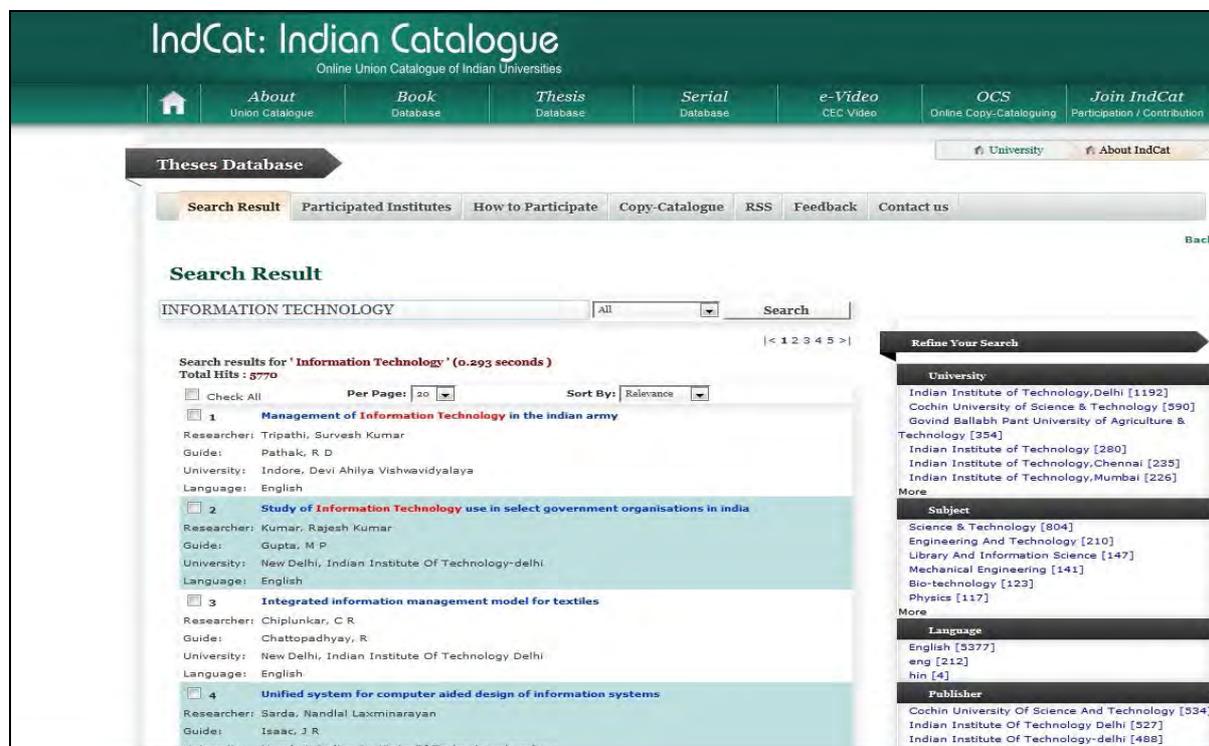


Fig. 14: New Web-based Platform for Theses Database

Technologies: Solr, PHP, MY-SQL, Postgres

7.6. Human Resource Development & Consultancy

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

One of the important objectives of the Centre is to impart training to library and information science professionals working in university and college libraries in the use of ICT. So far about 535 programmes include training programmes, workshops and seminars focusing on the library automation, networking, e-resource awareness, institutional repositories, etc. have been conducted benefiting 42,942 participants. INFLIBNET Regional Training Programme for Library Automation (IRTPLA) and User Awareness Training Programme 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 105 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:

7.6.1. Training Programmes

The INFLIBNET Centre provides five-day Orientation Training Programme. The training programme is on Installation and Implementation of the SOUL Software 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 are invited to join this training programme, one each with computer and library science background. As on March 31, 2013, a total no. of 105 such training programmes were organized at the Centre. During the period under report, 4 training programmes were organized to impart training to 88 participants from different institutions as shown in Table 8 and Figure 15 given below.

Sl. No.	Name of Training Programme	Period	No. of Participants
1	102 nd SOUL Training Programme	7 th – 11 th May 2012	22
2	103 rd SOUL Training Programme	9 th – 13 th July 2012	24
3	104 th SOUL Training Programm	10 th – 14 th Sept 2012	21
4	105 th SOUL Training Programme	15 th – 19 th Oct 2012	21
	Total		88

Table 8: SOUL Training Programmes Organized at the INFLIBNET Centre during 2012-13



Fig. 15: Participants of 102nd Training Programme on SOUL 2.0 with the Director and Technical Staff of the INFLIBNET Centre

As depicted in figure 16, a total number of 248 copies of SOUL Software were released during the year under report including 184 copies that were sold out to new users and 64 copies that were offered free-of-cost to the users of SOUL 1.0. These 248 copies of SOUL Software include 130 copies of Limited Edition (including 38 copies given free) and 54 copies of Full Edition (including 26 copies given free).

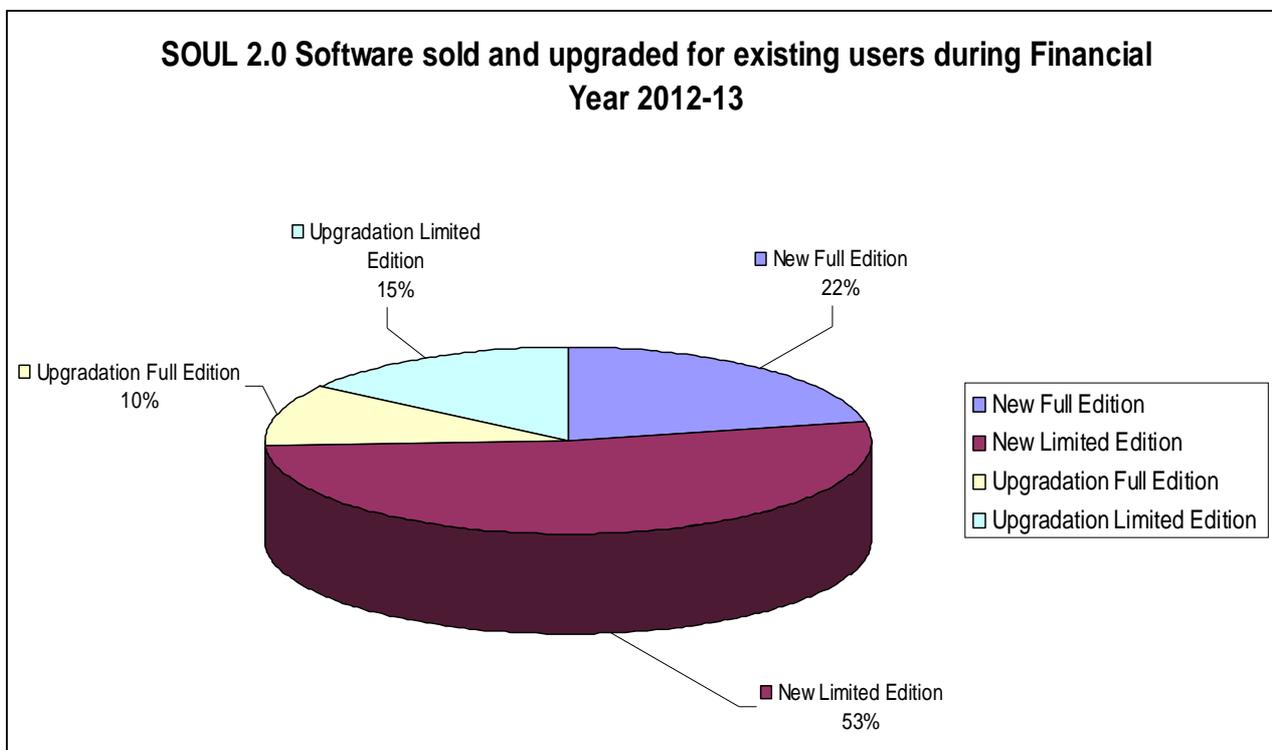


Fig. 16: SOUL 2.0 Software sold and upgraded for Existing Users during Financial Year 2012-13

7.6.1.1. INFLIBNET Regional Training Programme on Library Automation

7.6.1.1.1. INFLIBNET Regional Training Programme on Library Automation, Government Hrangbana College, Aizawl (Mizoram), 30th April-4th May, 2012

The Centre organised five-day Regional Training Programme on Library Automation (IRTPLA) in collaboration with Government Hrangbana College, Aizawl, Mizoram from 30th April to 4th May 2012. The training programme was inaugurated by Prof. R Lalthantluanga, Vice Chancellor, Mizoram University, Aizawl, Mizoram. Shri K Liantuala, Principal, Government Hrangbana College, Aizawl, delivered the welcome address. Prof. Pravakar Rath, HOD, Department of Library and Information Science, Mizoram University, Aizawl, was invited to deliver the key note address. About 32 participants attended the training programme from different colleges of Mizoram. Shri H G Hosamani, Scientist C (LS), Shri Vijay Shrimali, STA (CS) from the INFLIBNET Centre, Ahmedabad and Shri Anupam Sharma, Regional SOUL Technical Assistant, Gauhati, Assam were the resource persons for the training programme. Shri Lalchatuana, Librarian co-ordinated the training programme on behalf of Govt. Hrangbana College, Aizawl, Mizoram.



Fig. 17: Shri H G Hosamani, Scientist C (LS), INFLIBNET Centre along with the Participants of the IRTPLA Programme at Mizoram

7.6.1.2. Specialized Training Programmes

7.6.1.2.1. Workshop on Development of Institutional Repository using DSpace with Special Reference to Creation of ETD Archive, Jawaharlal Nehru University, New Delhi, 23rd- 27th July, 2012

The five-day Workshop on Development of Institutional Repository using DSpace with Special Reference to Creation of ETD Archive was organized by Jawaharlal Nehru University (JNU), New Delhi in

collaboration with INFLIBNET Centre, Ahmedabad from 23rd to 27th July 2012. Dr. Ramesh C Gaur, University Librarian, JNU, welcomed the participants and guests. Prof Sudha Pai, Rector, JNU inaugurated the programme. Shri Gopal Krishan, Senior Programmer, IIT, Delhi, Prof. A. R. D. Prasad, DRTC, Bangalore, Dr. R. C. Gaur, University Librarian, JNU, New Delhi and Dr. B. B. Sahu, JNU, New Delhi, were expert resource persons. Shri Manoj Kumar K, Scientist-D (CS), Shri Swapnil Patel, Scientist-B (CS) and Shri Bhavesh Patel, Project Officer (CS) were resource persons from INFLIBNET Centre. Dr. Ramesh C Gaur co-ordinated the programme on behalf of Jawaharlal Nehru University, New Delhi.

7.6.1.2.2. National Workshop on "Intellectual Property Right with Reference to Patents and Copyright, Mizoram University, Aizawl, 27th-28th August, 2012

A two-day National Workshop on 'Intellectual Property Rights with Reference to Patents and Copyright' was organized by the Department of Library and Information Science, Mizoram University, Aizawl in collaboration with INFLIBNET Centre, Ahmedabad and DRDO, New Delhi during 27th -28th August, 2012. Prof. A K Agarwal, Head, Dept. of Economics and In-charge Vice-Chancellor, Mizoram University, was the Chief Guest for the inaugural session. Prof. Thangchungnunga, Registrar, Mizoram University, Aizawl presided over the inaugural function. 40 participants attended the workshop including librarians, faculty and research scholars. Prof. Pravakar Rath, Head of the Department and Prof. R K Ngurtinkhuma, Associate Professor Coordinated the programme on behalf of Mizoram University, Aizawl.

7.6.1.2.3. National Workshop on "Creation and Management of Digital Collections" INFLIBNET Centre, Ahmedabad, 3rd – 7th December, 2012

The INFLIBNET Centre, Ahmedabad organized five-day National Workshop on "Creation and Management of Digital Collections" from 3rd to 7th December, 2012. The Workshop was inaugurated by Shri Manoj Kumar, Scientist-D (CS), INFLIBNET Centre. 19 library science and computer science professionals participated in the workshop. Dr Jagdish Arora, Director INFLIBNET Centre, Shri Manoj Kumar K, Shri Yatrik Patel & Shri Ashok Kumar Rai, Scientists-D (CS) and Shri H G Hosamani, Scientist C (LS) were resource persons for the Workshop. Shri P Kannan, Scientist B (LS), Shri Saroja Kumar Panda, Scientific & Technical Assistant-I (LS), Shri Vijay Shrimali, STA (CS), Shri Bhavesh Patel, Project Officer (CS), and Smt. Archita Makwana, Project Associate (LS) assisted in "hands-on" practical sessions. Dr Jagdish Arora, Director, INFLIBNET Centre presided over the valedictory function and distributed certificates to participants. Shri Yatrik Patel, Scientist D (CS) and Shri H G Hosamani, Scientist C (LS) coordinated the Workshop.

7.6.1.3. SOUL 2.0 In-house Training Programme

7.6.1.3.1. Three-day SOUL 2.0 In-house Training Programme at Sant Gadge Baba Amravati University, Amravati, Maharashtra from 4th-6th August 2012

Three-day In-house training programme on 'SOUL 2.0- Installation and Operation' was organized by Sant Gadge Baba Amravati University, Amravati, Maharashtra, in collaboration with INFLIBNET Centre,

Ahmedabad from 4th to 6th August, 2012 at Sant Gadge Baba Amravati University. The Training Programme was inaugurated by Hon'ble Dr. Mohan Khedkar, Vice Chancellor, Sant Gadge Baba Amravati University, Amravati. In his inaugural address, he expressed his expectation from the libraries in higher education. The main objective of the training programme was to make the staff familiar with the SOUL 2.0 by providing theoretical as well as "hands-on" practice. Shri Kamlesh Vegad, Project Officer (LS), Ms. Nabila Shaikh, SOUL Technical Assistant (CS), INFLIBNET Centre, Ahmedabad and Ali Petiwala, Regional SOUL Technical Assistant from Maharashtra Region, were the expert resource persons. 16 library staff members participated in the training programme. Dr. Mohan Kherde, Librarian, co-ordinated the training programme on behalf of Sant Gadge Baba Amravati University, Amravati, Maharashtra.

7.6.1.4. User Awareness Programmes on N-LIST and UGC INFONET Digital Library Consortium

7.6.1.4.1. User Awareness Programme on E-resources subscribed under the UGC-INFONET Digital Library Consortium and N-LIST, Central University of Punjab, Batinda, 19th May, 2012

A User Awareness Programme on E-resources offered to the Central University of Punjab through UGC INFONET Digital Library Consortium and N-LIST was conducted on 19th May 2012 at Central University of Punjab, Batinda. Dr Jagdish Arora, Director, INFLIBNET Centre gave brief introduction about INFLIBNET Centre and its activities and services offered to academic community in India. He also made a detailed presentation on UGC-INFONET Digital Library Consortium and N-LIST programme including available e-resources, process of joining to the programme, infrastructure required, method of access, etc. He also spoke about new initiatives taken by Centre including access to Science Direct and Wiley-Blackwell under the Consortium offerings. Dr. R K Chadha, Additional Secretary, Parliament of India, New Delhi, guest of honour for the inaugural session, addressed the participants and invitees about impact of ICT on higher education system with special reference to universities and college libraries. Prof. Jai Roop Singh, Vice Chancellor, Central University of Punjab dwelled upon the importance of libraries in research and development activities. He stated that library and laboratory are the eyes and ears of a scientist. He stated that availability of e-resources in electronic format has eased the process of conducting literature survey. Shri Jagdev Kartar Singh, Registrar, Central University of Punjab offered a warm vote of thanks to dignitaries on the dais, participants and invitees. Nearly 170 participants attended the programme.

The Afternoon sessions consisted of presentations from publishers and their representatives on e-resources made accessible to the Central University of Punjab. The presentations were made by Infomatics India on JCCC and Annual Reviews, M/s. Balani Infotech on Project Muse, M/s. Springer, M/s. Wiley & Taylor & Francis on their respective e-resources.

7.6.1.4.2. User Awareness Programme on E-resources subscribed under the UGC-INFONET Digital Library Consortium and Signing of MoU on Shodhganga, University of Mysore, Mysore, 8th June 2012

One-day User Awareness Programme on E-Resources subscribed under the UGC-INFONET Digital Library Consortium was organized by the University of Mysore in collaboration with INFLIBNET Centre, Ahmedabad on 8th June 2012 at Einstein Hall, Department of Physics, University of Mysore. Dr. Jagdish Arora, Director, INFLIBNET Centre, Ahmedabad inaugurated the programme. Dr. Arora gave a brief account of the activities of INFLIBNET Centre and e-resources available for the benefit of students, research scholars and the faculties in universities all over the country. He complimented the patrons of University of Mysore for remarkable increase in the usage of e-resources. Prof. P. Venkataramaiah, Former Vice-Chancellor of Kuvempu University was the Chief Guest during inaugural session. Dr. I. R. N. Goudar, Visiting Professor and Library Advisor welcomed the guests. Dr Goudar, In his address, mentioned that the successful and the popular initiative of UGC- INFONET facilitates access to more than 8,500 e-journals and good number of databases from well-known publishers for the benefit of students, research scholars and faculty in Indian universities. Prof. V. G. Talawar, Vice-Chancellor, University of Mysore presided over the function. Prof. P. Venkataramaiah appreciated the service of INFLIBNET Centre and complimented the Mysore University Library for providing quality information services. Prof. Talawar, thanked the INFLIBNET Centre for facilitating improvement in quality of research by making available thousands of full-text journals and databases. Dr. C. P. Ramasesh, University Librarian extended a formal vote of thanks. Nearly 145 participants including faculty members, research scholars, librarians and administrative staff attended the programme. Dr. I. R. N. Goudar, Visiting Professor and Library Advisor coordinated the programme on behalf of the University.

7.6.1.4.3. User Awareness Program on E- Resources Subscribed under N-LIST, Islamiah College, Vaniambadi, Tamil Nadu, 8th July 2012

One-day User Awareness Programme on E-Resources subscribed under the N-LIST project was organized by Islamiah College, Vaniambadi, Tamil Nadu in collaboration with INFLIBNET Centre, Ahmedabad on 8th July, 2012. The programme was coordinated by Shri B Shaik Usman, Librarian, Islamiah College. Janab Ghani Md. Jaweed Sahib, Secretary & Correspondent, Islamiah College, Vaniyambadi delivered the Inaugural Address. Dr K Prem Nazeer, Principal, Islamiah College welcomed the gathering and presented a brief about the Workshop. Dr Kaliyaperumal, Librarian, University of Madras, Chennai, delivered the key note address and elaborated upon advantage of consortia-based access to e-resources as compared to individual subscription by a college. Shri P Kannan, Scientist B (LS), resource person from INFLIBNET Centre, delivered a talk on INFLIBNET activities and services and functions. He also made a detailed presentation on N-LIST programme including available e-resources, process of joining to the programme, infrastructure required, method of access, etc. About 200 participants including librarians, principals and research scholars from more than 40 colleges participated in the programme. Mrs Aarifa Basheer, Vice-Principal and Librarian, Islamiah Women's College, Vaniyambadi delivered the valedictory address. Shri B Shaik Usman extended a warm vote of thanks to the college authorities, INFLIBNET Centre and participants.

7.6.1.4.4. User Awareness Program on E- Resources Subscribed under N-LIST, St. Ann's College for Women, Hyderabad, Andhra Pradesh, 18th July 2012

One-day User Awareness programme on E-Resources subscribed under the N-LIST project was organized by the St. Ann's College for Women, Mehdipatnam, Hyderabad in collaboration with INFLIBNET Centre, Ahmedabad on 18th July, 2012. Dr. Sr. K. Anthony Mary, Principal welcomed the dignitaries and participants. Chief Guest, Dr. R. David Kumar, Special Officer-Academic & IT, Commissioner of Collegiate Education, Govt. of Andhra Pradesh delivered inaugural address. In his Inaugural address, Dr. Kumar spoke about how colleges have to think differently to prepare themselves for the future virtual world. He urged all the colleges to go in for library automation in order to be ready for the future. Ms. Bala Theresa, Librarian and Chief Coordinator, St. Ann's College for Women stated that their library is fully automated using SOUL software, with on-line public access catalogue. Moreover, their library is opened to the neighbourhood particularly for the women, senior citizens and the alumni. Shri Lakshma Reddy, Regional Coordinator and Shri T. Venkata Ravi Kiran, Regional Soul Technical Assistant acted as resource person from INFLIBNET Centre for the programme. Dr. E. Rama Reddy, Retd Professor, University of Hyderabad and Visiting Professor, School of ICMT, Mahasarakham University, Thailand enlightened the participants about availability of different types of electronic resources including e-books and e-journals in open access and through programmes like N-LIST. Prof. S. Sudarshan Rao, Dept. of Library & Information Science, Osmania University, Hyderabad spoke about e-resources and their Importance in academics & research community. Around 100 participants from various colleges, in and around the city, attended the programme. Ms. Bala Theresa, Librarian and chief coordinator, St. Ann's college for Women coordinated the programme on behalf of the college.

7.6.1.4.5. User Awareness Programme on E-resources subscribed under the UGC-INFONET Digital Library Consortium, Kerala University, Trivandrum, Kerala, 20th July 2012

One-day User Awareness programme on E-Resources subscribed under the UGC-INFONET Digital Library Consortium was organized by Kerala University in collaboration with INFLIBNET Centre, Ahmedabad on 20th July, 2012 at Senate Chamber, Kerala University. Smt. L. Saraswathy, Deputy Librarian-in-charge, Kerala University inaugurated the programme. Dr. Mohanakumar, Assistant Librarian, Kerala University welcomed the participants. Shri Manoj Kumar K., Scientist D (CS), resources person from INFLIBNET Centre explained briefly about Shodhganga and made a detailed presentation on UGC-INFONET Digital Library Consortium including available e-resources, process of joining to the programme, infrastructure required, method of access, etc. Dr. P K Suresh Kumar, Assistant Librarian, Kerala University extended a vote of thanks to the university authorities, INFLIBNET Centre, participants and faculty. About 178 participants including faculty members, librarians, research scholars and students of various teaching departments of the University attended the programme. Smt. L. Saraswathy, Deputy Librarian-Incharge coordinated the programme on behalf of Kerala University.

7.6.1.4.6. User Awareness Program on E- Resources subscribed under N-LIST, Hislop College, Nagpur, 31st August, 2012

One-day User Awareness programme on E-Resources subscribed under the N-LIST Project was organized by the Hislop College, Nagpur in collaboration with INFLIBNET Centre, Ahmedabad on 31st August, 2012. Mrs. Naina Peters, Librarian, Hislop College who was also the co-ordinator of the programme welcomed the guests & participants. Dr. Lata Deshmukh, Vice Principal, Hislop College addressed the participants and invitees. The programme was inaugurated by Hon'ble Dr. P. S. G. Kumar, Former UGC Emeritus Fellow and Former Head, Department of Library and Information Science, Former University Librarian, Dr. V. B. Alias Bhausahab Kolte library, R. T. M. Nagpur University addressed the participants as the Chief Guest. Shri A. S. Sonone, Regional SOUL Coordinator and Shri Amrutesh Agarwal Regional SOUL Technical Assistant conducted the technical session. Shri A. S. Sonone made a detailed presentation on N-LIST programme including available e-resources, process of joining to the programme, infrastructure required, method of access, etc. More than 50 participants attended the programme. Participants and research scholars expressed their views about the programme. The participants asked questions about availability of e-resources, accessibility, use and pre-conditions for joining the N-LIST Project. The technical sessions were followed by distribution of certificates of participation and ended with a warm vote of thanks proposed by Shri John Landge, Lecturer, Hislop College.

7.6.1.4.7. User Awareness Program on E-resources subscribed under the UGC-INFONET Digital Library Consortium & N-LIST, University of Delhi, South Campus, 27th-28th September 2012

Two-day User Awareness Programme on E-resources subscribed under the UGC INFONET Digital Library Consortium and N-LIST, was organised by University of Delhi, South Campus in collaboration with INFLIBNET Centre from 27th to 28th September 2012. Dr. Tariq Ashraf, Programme Co-ordinator welcomed the dignitaries and participants. Prof. Deepak Pental, former Vice- Chancellor, University of Delhi & Chairman, National Library Mission inaugurated the Programme. In the inaugural speech, he described the state of affairs of libraries in general. He stated that libraries fall in the domain of public good and, therefore, the sensibilities and its onus is required to be developed. Dr. P. R. Goswami, Director, National Social Science Documentation Centre (ICSSR) graced the occasion as Guest of Honour. In his address, he traced the evolution of e-resources from electronic CDROM database to the online full-text resources. He stated that with the advent of Internet, access to e-resources has revolutionized and become far easier. He elucidated distinction between the dissemination of information services in social sciences with that of sciences, as social sciences always have a geographical and chronological connotation while sciences are universal in nature. Dr. Vikas Gupta, Deputy Registrar, University of Delhi South Campus (UDSC) in his inaugural address, stated that networking of libraries and collaborative strategies in acquisition of e-resources are the key to empower both libraries as well as the user communities. Shri R. N. Vashista, University Librarian, DULS stressed upon the role of libraries and librarians to maximize utilization of e-resources. He asked library professionals to develop passion to understand contours of knowledge. Dr. Tariq Ashraf extended a warm vote of thanks at the end of

inaugural session. About 170 participants including professionals and researchers of various educational institutions of Delhi & NCR attended the programme.

The core agenda of the programme was set in motion by Mr. Ashok Rai, Scientist D (CS), INFLIBNET, who gave an overview of N-LIST programme. He briefly described N-LIST as a new initiative of MHRD under its National Mission on Education through ICT. He spoke about the resources offered by N-LIST, i.e. no. of e-books/e-journals, search features, back file access, perpetual access rights in a live demonstration through N-LIST website. Representatives of the following publishers made presentations on e-resources offered by them to the colleges under N-LIST programme:

- i) Ebrary: 70,000 e-books
- ii) AIP/APS: 18 journals with 10 years backfiles
- iii) Springer : 1500 electronics books
- iv) Taylor & Francis: 1000 electronics books
- v) MathSciNet: Mathematical Reviews from 1940 onwards
- vi) IndianJournal.com: 150 Indian journals

Dr. Tariq Ashraf, Programme Co-ordinator expressed his sincere thanks to Dr. Jagdish Arora, Director, INFLIBNET Centre for providing support in organising the awareness programme. He thanked Shri Ashok Rai for his presence and making the valuable presentation. Dr. Ashraf further thanked all the publishers, vendors and participants for their participation and contributions in making programme successful.

7.6.1.4.8. User Awareness Programme on E-resources subscribed under N-LIST, Nya. Tatasahab Athalye Arts College, Ved. S. R. Sapre Commerce College and Vid. D. Pitre Science College, Deorukh, Ratnagiri, 1st October 2012

One-day User Awareness programme on E-Resources subscribed under the N-LIST programme was organized by Nya. Tatasahab Athalye Arts College, Ved. S. R. Sapre Commerce College and Vid. D. Pitre Science College, Deorukh, Ratnagiri in collaboration with INFLIBNET Centre, Ahmedabad on 1st October, 2012 at the DSPM's Athalye, Sapre & Pitre College. Dr. Narendra P. Tendolkar, Principal inaugurated the programme and appealed to every faculty to develop their intellectual caliber and make research as an integral part of their routine. He opined that UGC-INFLIBNET has facilitated research with a wide spectrum of e-resources to all universities as well as to colleges. Mrs. Nalini Raja, SOUL Coordinator and resource person from the INFLIBNET Centre made a detailed presentation on N-LIST programme including available e-resources, process of joining to the programme, infrastructure required, method of access, etc. She also highlighted the objectives and importance of the UGC-INFONET Digital Library Consortium, SOUL and Shodhganga. 44 participants attended the programme. Participants and faculty members were given ample opportunity to interact and communicate with the experts during all the sessions. Participants and research scholars gave their feedback on the programme. They found it very impressive and useful. Participants demanded that such programmes should be organized at regular

intervals in future. Dr. Madansing D. Golwal, Librarian, coordinator of the programme, concluded the session and gave formal vote of thanks.

7.6.1.4.9. User Awareness Programme on E-resources subscribed under N-LIST, Directorate of Higher Education, Tripura, Agartala, 5th October, 2012

One-day User Awareness Programme on E-Resources subscribed under the N-LIST programme was organized by Directorate of Higher Education Tripura, Agartala in collaboration with INFLIBNET Centre, Ahmedabad on 5th October 2012 at Birchandra Central State Public Library, Tripura. Dr. B. Palith, Director, Department of Higher Education, Tripura and Shri Kishore Ambuly, Secretary, Department of Higher Education, Tripura briefed the need for such facility for the teachers and the students of the colleges and requested all concerned to avail this facility in all the colleges of entire state of Tripura. He emphasized that access to e-resources would be very helpful for dissemination of knowledge among the stakeholders with the help of NLIST. Shri Ashok Kumar Rai, Scientist D (CS), resource person from the INFLIBNET Centre, made a detailed presentation on N-LIST programme including available e-resources, process of joining to the programme, infrastructure required, method of access, etc. 26 participants attended the programme and user interacted with the resource persons on various issues. Dr. B Palith, Director, Department of Higher Education coordinated the programme.

7.6.1.4.10. User Awareness Programme on E-resources subscribed under N-LIST, University of Allahabad, Allahabad, 9th November 2012

One-day User Awareness Programme on E-Resources subscribed under the N-LIST Programme was organized by Central Library, University of Allahabad, Allahabad in collaboration with INFLIBNET Centre on 9th November, 2012. Prof. Hari Dutt Sharma, Professor-In-Charge of the Central Library welcomed the guests and participants. Prof. N. R. Farooqi, Dean of Research and Development, inaugurated the programme. He emphasized on the need of holding such awareness programme to promote optimal use of e-resources. Prof. L. R. Singh, Dean of College Development, suggested that all college Libraries should get benefit of access to e-resources available under N-LIST programme. Shri Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre, made a presentation on INFLIBNET activities, services and functions. He also made a detailed presentation on N-LIST programme including available e-resources, process of joining to the programme, infrastructure required, method of access, etc. Dr. B. K. Singh, Deputy Librarian, University of Allahabad, coordinated the programme and delivered vote of thanks. More than 70 participants including principals, librarians, and research scholars from colleges situated in and around Allahabad attended the programme.

7.6.1.4.11. User Awareness Programme on E-resources subscribed under UGC INFONET Digital Library Consortium, GITAM University, Visakhapatnam, 7th December 2012

One-day User Awareness programme on E-Resources subscribed under the UGC-INFONET Digital Library Consortium was organized by the GITAM University in collaboration with INFLIBNET Centre,

Ahmedabad on 8th December 2012 at GITAM University, Visakhapatnam. Dr. G. Naga Ratna Mani, University Librarian welcomed the participants and guests. In her welcome address, she briefly presented about INFLIBNET Centre, UGC Infonet resources and e-resources accessible through UGC Infonet by the GITAM University. She stressed upon the need to provide additional e-resources to GITAM University and elaborated on the purpose and objectives of the User awareness programme. Dr. Jagdish Arora, Director, INFLIBNET Centre, Ahmedabad lighted the traditional lamp during the inaugural function along with Prof. G. Subrahmanyam, Vice-Chancellor, Prof. D. Harinarayana, Pro Vice-Chancellor, Prof. M. Potha Raju, Registrar and Dr. G. Naga Ratna Mani, University Librarian, GITAM University. Dr. Arora explained current status of UGC Infonet Digital Library Consortium and new programmes taken by the INFLIBNET Centre for the universities. He voluntarily accepted to include GITAM University under Shibboleth based federated access programme and insisted the university to sign MOU for Shodhganga programme. He assured to provide access of Science Direct and additional number of e-resources from the next plan period. Prof. G. Subrahmanyam, appreciated the efforts of the INFLIBNET Centre, Ahmedabad and importance of user awareness programme. He stressed upon the need for providing access to ScienceDirect for GITAM University.

The representatives of the publishers including Institute of Physics, Royal Society of Chemistry, Cambridge University Press, Wiley-Blackwell, Informatics (for JCCC and Annual Reviews), Taylor and Francis attended the programme and made presentations on their e-resources. Smt. P. Sita Devi, Assistant Librarian of Knowledge Resource Centre proposed a warm vote of thanks to all concerned. 38 participants attended the programme. The participants found the programme very informative and useful. Dr. G. Nagar Ratna Mani coordinated the programme on behalf of GITAM University.

7.6.1.4.12. User Awareness Programme on E-resources Subscribed under N-LIST, Government Girls' P.G. College, Ghazipur, 1st February 2013

One-day User Awareness programme on E-resources subscribed under the N-LIST programme was organized by Government Girls' P.G. College, Ghazipur in collaboration with INFLIBNET Centre, Gandhinagar on 1st February 2013 at Govt. Girls' PG College, Ghazipur. Dr S. K. Sharma, Principal, Government Girls' P.G. College, Ghazipur welcomed the guests and participants. In his welcome speech, Dr. Sharma stated that as per his observation N-LIST has very few e-books in Hindi. He expressed his desire that the message be conveyed to policy planners for the inclusion of publishers of Hindi e-books so that the needs of promising students are catered. Dr Sharma also outlined the importance of e-library and resources in the field of higher education and its scenario in U.P. as compared to other states. Dr. H. N. Das, Convenor, Dept. of Zoology presented a brief introduction about N-LIST project and about the Awareness Programme. Dr Das emphasized the need for e-resources especially for researchers by sharing his own experiences and difficulties faced during his the time. Shri Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre made a presentation on N-LIST programme including available e-resources, process of joining to the programme, infrastructure required, method of access, etc. In the feedback and valedictory session, participants expressed their full satisfaction about the programme. Dr K. K. Tiwari, Associate Professor, Government Girls P.G. College, Ghazipur extended a warm vote of thanks to all the

guests, participants, organisers and staff of host institution. Around 129 participants attended the programme including teachers, research scholars and UG/PG students of host institution.

7.6.1.4.13. User Awareness Programme on E-resources Subscribed under UGC INFONET Digital Library Consortium and N-LIST, Banasthali University, Banasthali, 27th-28th February 2013

Two-day User Awareness Programme on UGC-INFONET Digital Library Consortium and N-LIST was organized by Banasthali Vidyapith in collaboration with INFLIBNET Centre, Gandhinagar on 27th and 28th February, 2013 at Banasthali Vidyapith, Banasthali. Prof. S. K. Khanna, Former Chairman, AICTE, Delhi lighted the Ceremonial Lamp during Inaugural session along with Honorable Prof. Chitra Purohit, President, Prof. Aditya Shastri, Vice Chancellor, Banasthali Vidyapith, Prof. J. P. Gupta, Vice Chancellor, Sharda University, Noida and Dr. Pawan Kumar Gupta, Former Director (Central Library), University of Rajasthan, Jaipur. Prof. Aditya Shastri welcomed the invited guests, delegates, faculty and research scholars. In his welcome address, he highlighted importance of information sources in research. Prof. J. P. Gupta, guest of honour delivered special address. Dr. Sanjay Kataria briefed about the Programme. Prof. Chitra Purohit delivered presidential address. Dr. Pawan Kumar Gupta presented an overview of the programme and delivered keynote address. Ms. Asha Sharma, Deputy Librarian offered a warm vote of thanks to dignitaries on the dais, participants and invitees.

Shri Kanann P, Scientist B (LS), resource person from INFLIBNET Centre, made a presentation on INFLIBNET activities, services and functions. He also made a detailed presentation on UGC-INFONET Digital Library Consortium and N-LIST programme including available e-resources, process of joining to the programme, infrastructure required, method of access, etc. Representatives of the publishers including Balani Infotech (for ACS & Project Muse), Springer, IGroup Infotech (for World eBook Library and Turnitin), Elsevier (for Scopus and Science Direct), Informatics India Ltd. (for Annual Reviews and JCCC) and Global Information Systems Technology (for Wiley-Blackwell & Knimbus) made presentation on their respective e-resources. Dr. Sanjay Kataria, Librarian concluded the two-day programme with formal votes of thanks. Around 275 participants attended the programme including library professionals, faculty members and research scholars. During the technical sessions, there were interactive queries from the participants that were answered by the representatives of the publishers.

7.6.2. SOUL Support Services

7.6.2.1. 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 2,706 across the country as per the details given in Appendix VII. 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 18:

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.

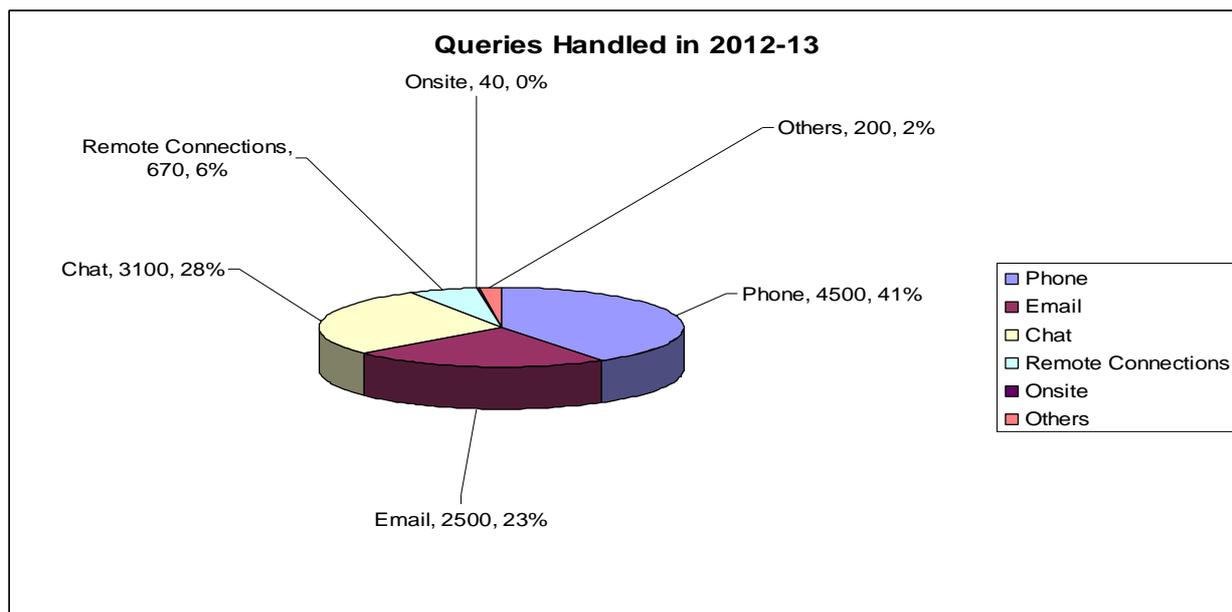


Fig. 18: SOUL Query Handled by SOUL Technical Assistants

7.6.2.2. 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.

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
Shri 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
Shri J. Laxma Reddy	<i>A.P., Karnataka, Pondicherry and Kerala</i>
	Lecturer in Library Science, Nagarjuna Government College (A), Nalagonda– 508 001, Andhra Pradesh. Ph. No. : 099081 15333 Email: clicngc@gmail.com
Smt. Nalini A Raja	<i>Maharashtra and Goa</i>
	302, Hari-Kripa, L.T.Road, Borivli (W), Mumbai - 400 092, Maharashtra. Mob.:09920790757 E-mail:nalini99@gmail.com
Shri 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 9: Names of SOUL Coordinators with their Contact Address

7.7. 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 has started following initiatives during the period under report:

7.7.1. 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.



Fig. 19: Open Journal Access System (OJAS)

Figure 19 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.

7.7.2. 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, Project Officer (CS)
Bhavesh Patel, Project Officer (CS)
Priti Sharma, Project Officer (LS)
Archita Muchhadia, Project Associate (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 20 depicts the home page of Shodhganga website.



Fig.20: Shodhganga Website

Organisation of theses in Shodhganga reflects academic structure of every university covered under 12 (B) or 2(f) Sections of the UGC Act, 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 voluntarily basis. As on 31st March, 2013, researchers from 108 universities have submitted their theses into the repository and a total no. of 112 universities have signed MoU with the INFLIBNET Centre including 60 universities who signed MoU with INFLIBNET Centre during the Financial Year 2012-2013. Moreover, 37 universities that are signatory to MoU with INFLIBNET Centre on Shodhganga, have received funds from UGC as incentive for joining this initiative. 100th MoU on Shodhganga was signed between INFLIBNET Centre and Gujarat Vidhyapith on 1st January, 2013. A list of 60 universities who has signed MoU for Shodhganga in the current year is given in Appendix- VIII. A List of 47 universities who contributed soft copy of their theses into Shodhganga but not signed MoU are given in Appendix- IX. Total number of theses submitted into the repository as on March 31, 2013 has grown upto 6,350. Moreover, 37 universities that are signatory to MoU with INFLIBNET Centre on Shodhganga, have received funds from UGC as incentive for joining this initiative.

A meeting of representatives of universities for Shodhganga who received grants from the UGC was convened at INFLIBNET Centre, Ahmedabad on 30th November, 2012. The meeting was attended by 30 professionals nominated by the universities. Major agenda of the meeting was to share experiences on digitization of these and dissertation and to impart guidelines on utilization of funds made available to universities under Shodhganga initiative.

In order to popularise the submission of thesis by research scholars and supervisors, INFLIBNET Centre organises Awareness programs in universities in association with respective university. During the year under report, the following five “User Awareness Programmes on Shodhganga” were organized by the Universities in collaboration with the INFLIBNET Centre as shown in table 10.

Sl. No.	University Name	Dates of Programmes
1	M. S. University of Baroda, Ahmedabad	22 th August 2012
2	Gujarat University, Ahmedabad	27 th August 2012
3	Sardar Patel University, Vallabh Vidyanagar	27 th December 2012
4	Sree Sankaracharya University of Sanskrit, Kalady	16 th November 2012
5	Tripura University, Tripura	21 st January, 2013

Table 10: User Awareness Program for Shodhganga

7.7.2.1. 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 committee proposed a detailed guidelines on Shodhganga scheme with its objectives, eligibility/ target, procedures for joining Shodhganga, monitoring of the project, etc. The Committee made recommendations on eligibility criteria, formula for allocation of funds for digitisation of backlist of theses as well as for setting up of ETD laboratory. Based on the eligibility criteria and formula devised for allocation of funds, the Committee recommended allocation of funds to 39 universities as well as to the INFLIBNET Centre. The Scheme and the recommendation of the committee were approved by the UGC.

7.7.2.2. 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 21.

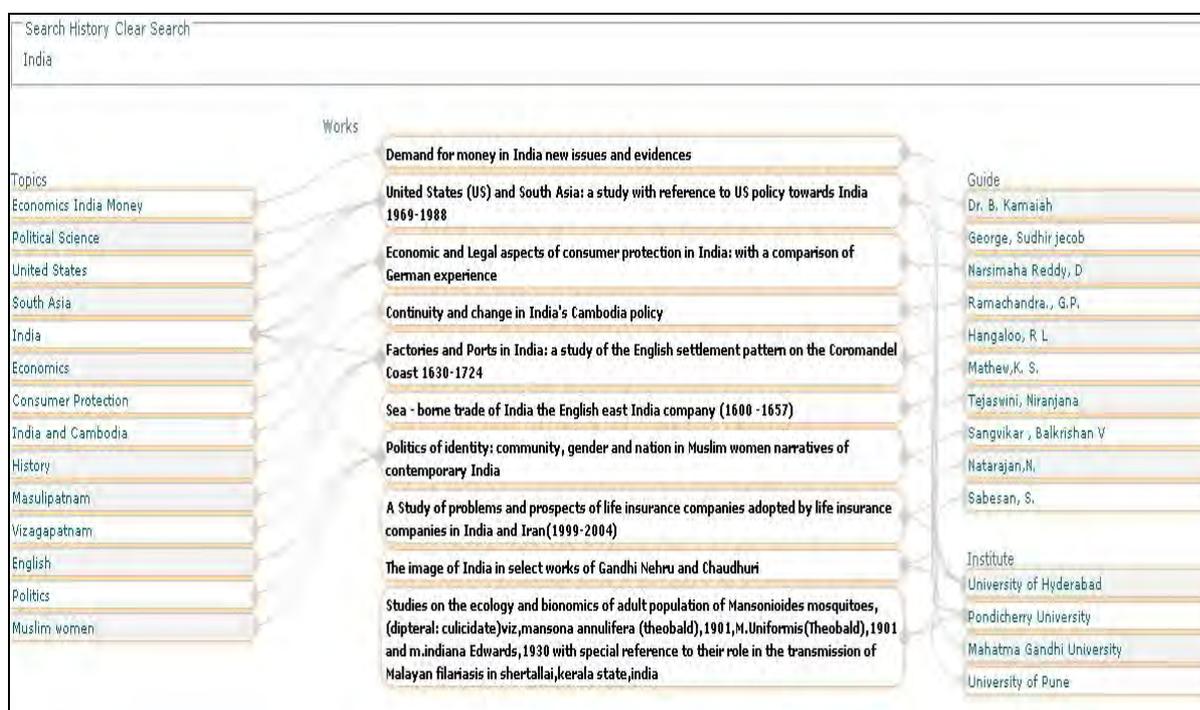


Fig. 21: Visual Browser for ShodhGanga

7.7.2.3. Usage Statistics

INFLIBNET also monitors the usage of theses 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 22.

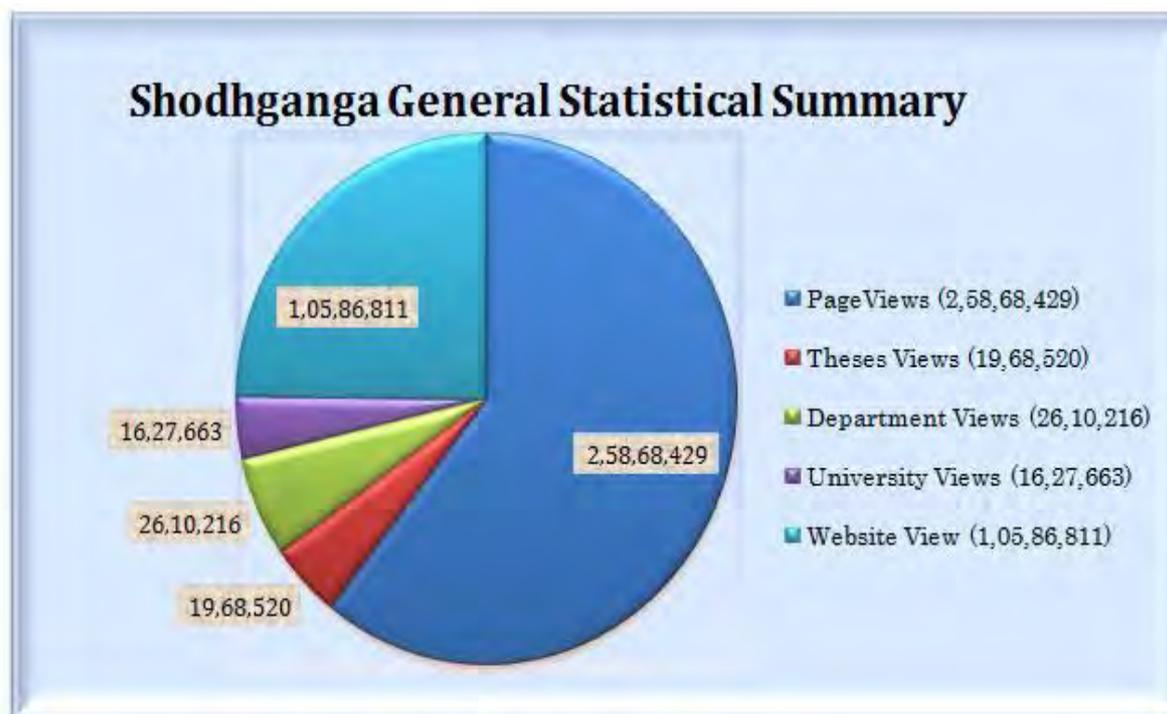


Fig. 22: Shodhganga General Statistical Summary

Top ten viewed theses are given below in Table 11.

Sl. No.	Title of the Theses	Views
1	A comparative study of nationalized and private banks with reference to customer relation management (10603/2350)	3,582
2	Library and information science education in north east region: a critical study (10603/1205)	3,109
3	A study on self help groups in Tirunelveli district (10603/672)	2,389
4	A study on women entrepreneurship in Kerala (10603/367)	2,175
5	Studies on certain plant volatiles attracting the shot hole border, euwallacea fornicatus (Eichhoff)(Scolytidae: Coleoptera) infesting tea (10603/20)	2,079
6	An assessment of role of state and district libraries in the socio-cultural and educational development of Mizoram (10603/1204)	1,954
7	1, 4-Butanediol dimethacrylate-crosslinked polystyrene as an efficient support for solid-phase peptide synthesis (10603/146)	1,901

8	Customer acceptance of internet shopping in India: impact of shopping orientations, knowledge and security (10603/2695)	1,873
9	Aadhunik hindi kahani ka samajshastriy adhyayan (आधुनिक हिंदी कहानी का समाजशास्त्रिय अध्ययन) (10603/1468)	1,762
10	Role of merchant banking in managing public issues: an empirical study with special reference to post 1997 era (10603/3566)	1,681

Table 11: List of Top 10 Theses Viewed till 31st March, 2013

7.7.3. 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, total number of approved synopsis submitted into the repository has grown to 1,317.

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

Yatrik Patel, Scientist D (CS)
Swapnil Patel, Scientist B (CS)
Roma Shahdadpuri, Project Officer (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 1,700 e-resources.

7.8. 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.

7.8.1. UGC-INFONET Digital Library Consortium

Jagdish Arora, Director
Ashok Kumar Rai, Scientist D (CS)
Kruti Trivedi, Scientist - B (LS)
Dinesh Kumar Pradhan, STO-I (LS)
Saroj Kumar Panda, STA-I (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 eleven bibliographic databases from 28 publishers including commercial publishers, scholarly societies, university presses and aggregators in different disciplines. The programme was implemented in a phased manner. In the first phase that began in 2004, access to e-resources was provided to 50 universities, who had Internet connectivity under the UGC-Infonet Connectivity Programme. In the second phase, 50 more universities were added to the programme in the year 2005 as additional universities got Internet connectivity through UGC-Infonet Connectivity Programme. So far 206 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 Journal Custom Content for Consortium (JCCC). 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 23.

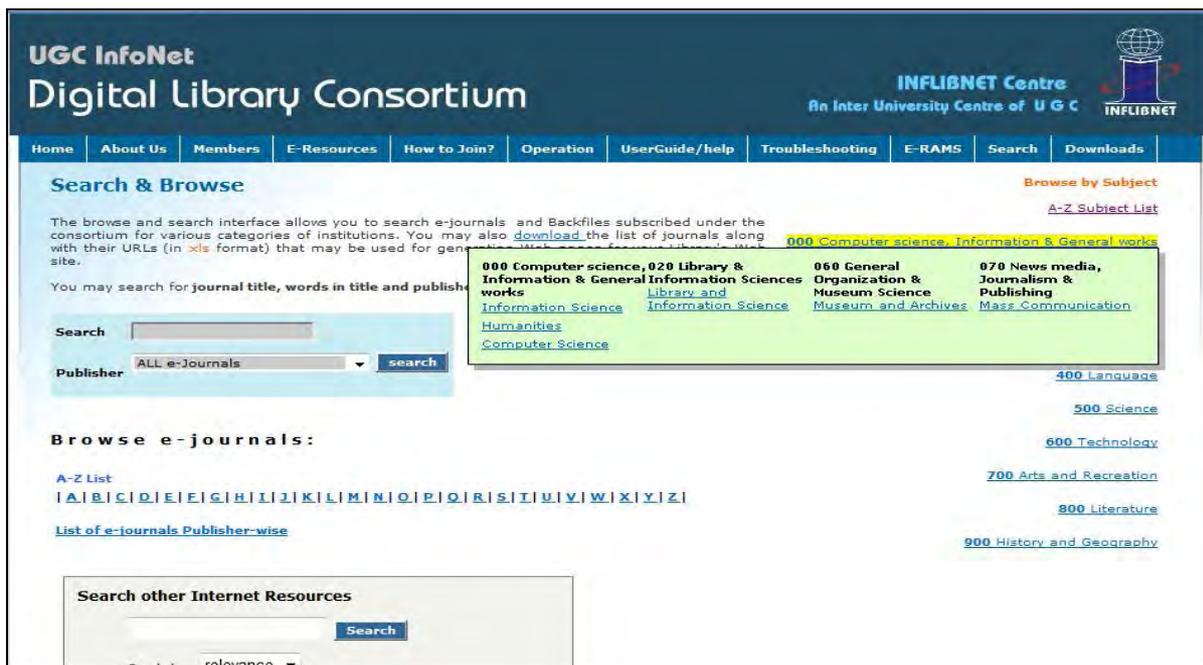


Fig. 23: Website of the UGC-Infonet Digital Library Consortium

7.8.1.1. 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 private universities/ institute through associate membership programme;
- ▶▶ to impart training to the 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 resources subscribed; and
- ▶▶ to identify new resources that are required to be subscribed under the programme depending on the availability of funds.

7.8.1.2. Governance of UGC-Infonet Digital Library Consortium

7.8.1.2.1. 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 X.

7.8.1.2.2. Negotiation Committee

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

7.8.1.3. Current Status

The Consortium offers access to more than 8,500 peer reviewed electronic journals and eleven bibliographic databases from 28 major publishers and aggregators. The access of the journals includes current issues as well as 10 years back files (from 1997 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 190 universities and 14 national law schools/universities as core members under different phases as given in Appendix XII. The details of subscribed e-resources are given in Appendix XIII.

7.8.1.3.1. Associate Membership Programme

The resources subscribed under the UGC-INFONET Digital Library Consortium are made available on subscription basis to other institutions including private universities under the "Associate Membership Programme". Under the programme, other institutions including private universities and 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 2012, 204 universities and other institutions have enrolled as associate members and are subscribing to different sets of resources.

7.8.1.4. 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 Electronic Resource Access Management System (e-RAMS). Universities with low usage of e-resources are requested to optimize their usage.

Table 12 reflects consistent increase in usage from 2011 to 2012 for all e-resources. There is an overall increase of 12.01% in usage of e-journals from 2011 to 2012. The increase in usage is consistent for all e-journals except for Institute of Physics (IOP), Nature, OUP, Springer and SIAM. However, since the journals published by Springer moved from their earlier platform to a new platform, the usage are not correctly registered at the publishers website causing lower registration of usage for Springer. The overall increase in case of bibliographical databases is 6.99%, however, in case of MathSciNet usage for 2012 is lower than that of 2011 usage as the usage for last two months could not be reported due to change in reporting platform.

Sl. No.	Publishers	No. of Downloads		
		2011	2012	% Increase in 2012
1	ACS	1398741	1563717	11.79
2	AIP/APS	392744	426325	8.55
3	AR	63115	80127	26.95
4	Blackwell	1048171	1330343	26.92
5	CUP	84932	92629	9.06
6	Elsevier	4121314	4965569	20.49
7	Emerald	79449	96351	21.27
8	IOP	246445	245966	-0.19
9	JSTOR	2252342	2479154	10.07
10	Nature	121936	117517	-3.62
11	OUP	375761	373248	-0.67
12	PM	96260	94458	-1.87
13	Portland	20268	25979	28.18
14	RSC	364576	554594	52.12
15	SpringerLink	1868341	1349891	-27.75
16	T&F	223041	491488	120.36
17	Pr. Euclid	2919	6284	115.28
18	SIAM	5462	5354	-1.98
E-journals		12765817	14298994	12.01
1	JCCC	1144521	1180503	3.14
2	MathSci	171168	148965	-12.97
3	SciFinder	285094	350640	22.99
4	WOS*	211724	259148	22.40
Databases		1812507	1939256	6.99

*WOS is available to 100 universities through the NLIST Project.

Table 12: Publisher wise Usage from 2011-2012

Comparative usage of e-resources in 2011 and 2012 is given below in Figure 24.

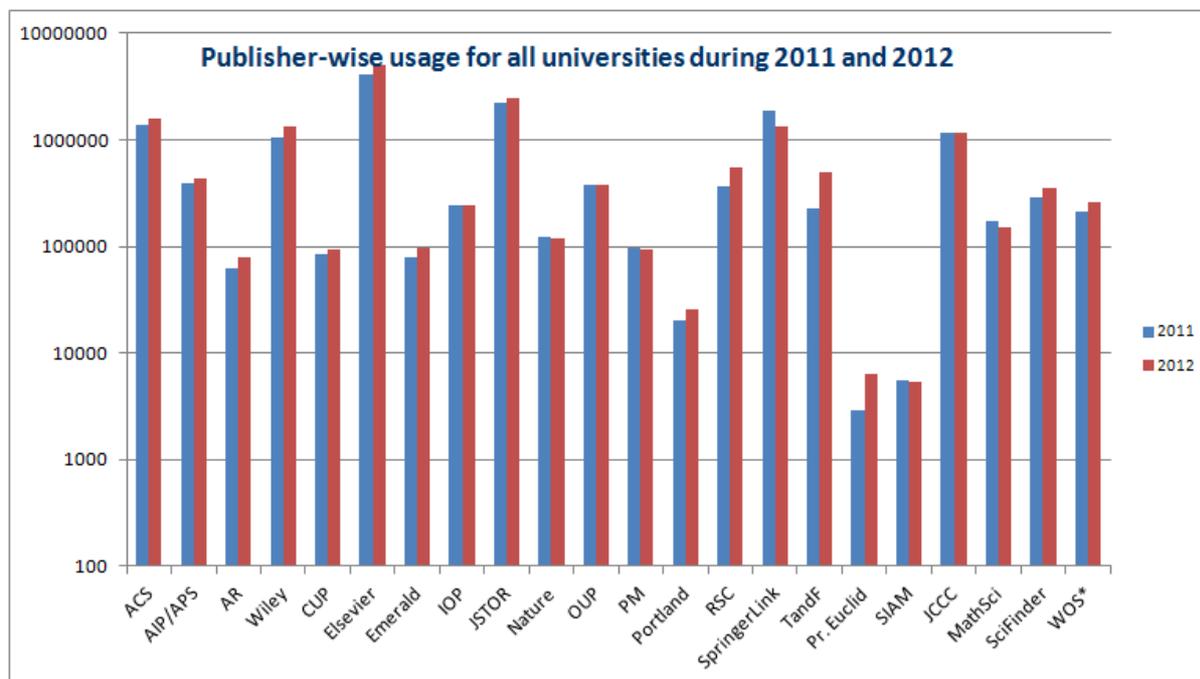


Fig. 24: Publisher-wise Usage of Resources during 2011 to 2012

7.8.1.5. Economics of UGC-Infonet Digital Library Consortium

7.8.1.5.1. 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.

7.8.1.5.2. Intensity of Usage: Cost Recovery

“Cost recovery” and “average cost of article per download” could 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 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. 10,778.13 millions has been recovered as against the total cost incurred of Rs. 1,000.31 millions with Rs. 9,777.82 millions as the cost of articles downloaded in excess as shown in Figure 25.

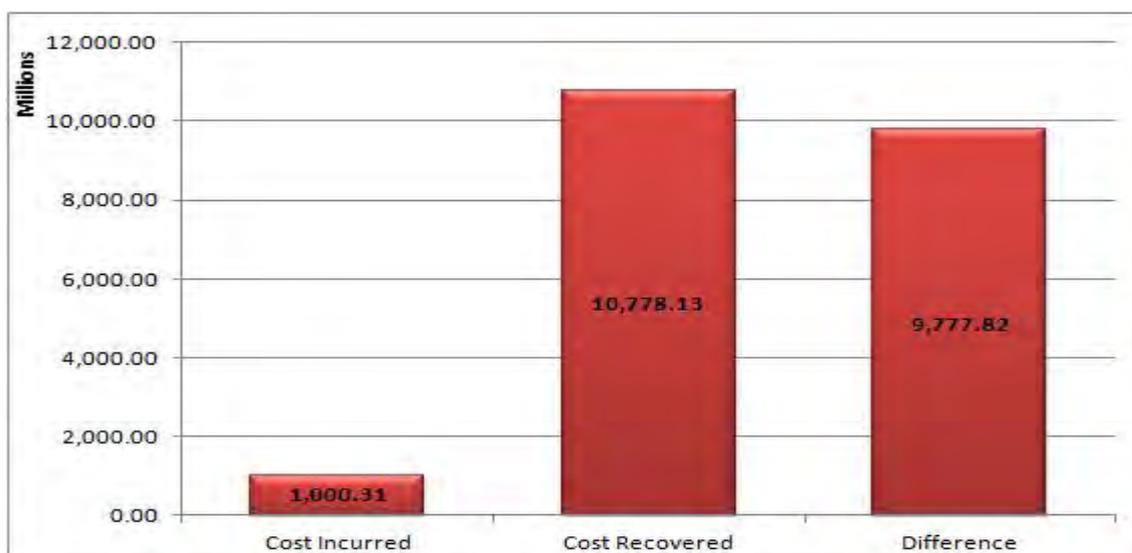


Fig. 25: Total Cost Recovery during 2012

The cost recovery factor for each resource is shown in Figure 26, that reflects that the cost recovery factor for Elsevier is highest followed by JSTOR & Springer.

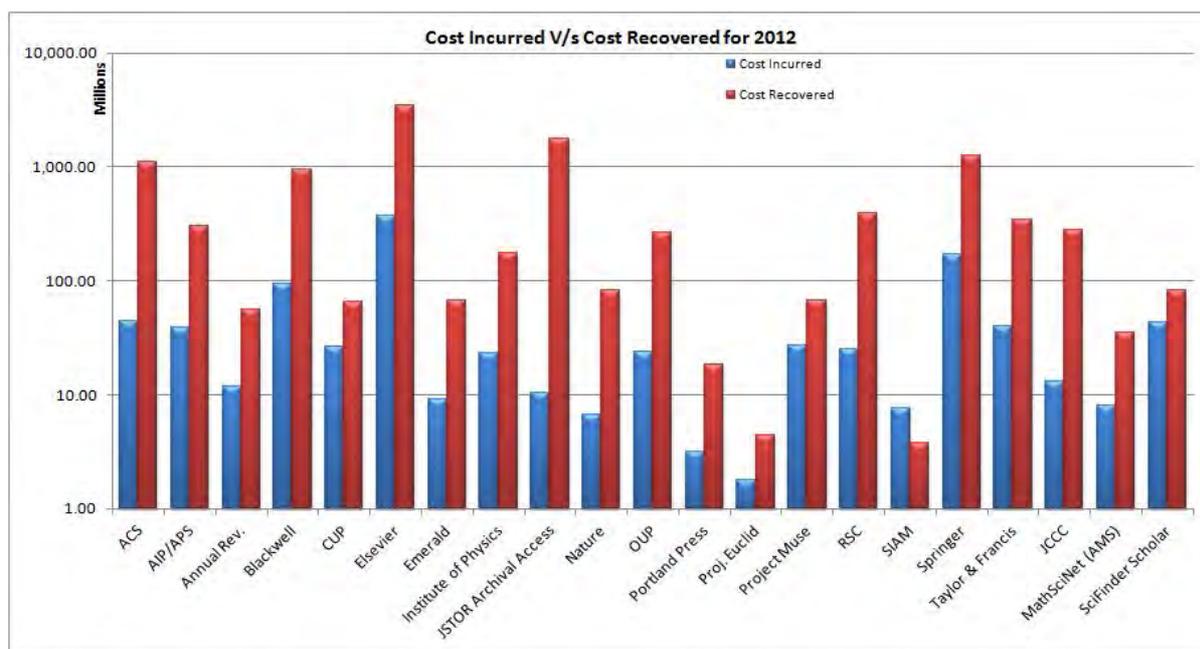


Fig. 26: Publisher-wise Cost Recovery during 2012

7.8.1.5.3. 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 13 and Figure 27, given below, provide the cost per download of an article. The cost per download is lowest for JSTOR (US\$ 0.08) and highest for SIAM (US\$ 28.3), whereas the Consortium average is US\$1.13.

Sl. No.	E-Resource	Average cost per Download (in US\$)
1.	JSTOR Archival Access	0.08
2.	ACS	0.56
3.	RSC	0.89
4.	Nature	1.13
5.	OUP	1.29
6.	Blackwell	1.43
7.	Elsevier	1.50
8.	Taylor & Francis	1.64
9.	AIP/APS	1.83
10.	Springer	1.90
11.	Emerald	1.91
12.	Institute of Physics	1.91
13.	Portland Press	2.45
14.	Annual Rev.	2.98
15.	CUP	5.67
16.	Project Muse	5.73
17.	Proj. Euclid	5.74
18.	SIAM	28.30
	Consortium Average	1.13

Table 13: Publisher-wise Average Cost of an Article

Table 14 given below provides the average cost of a search in bibliographic databases.

Sl. No.	Bibliographic Database	Average cost per Search (in US\$)
1.	JCCC	0.22
2.	MathSciNet (AMS)	1.07
3.	SciFinder Scholar	2.47

Table 14: Average Cost of a Search in Bibliographic Database

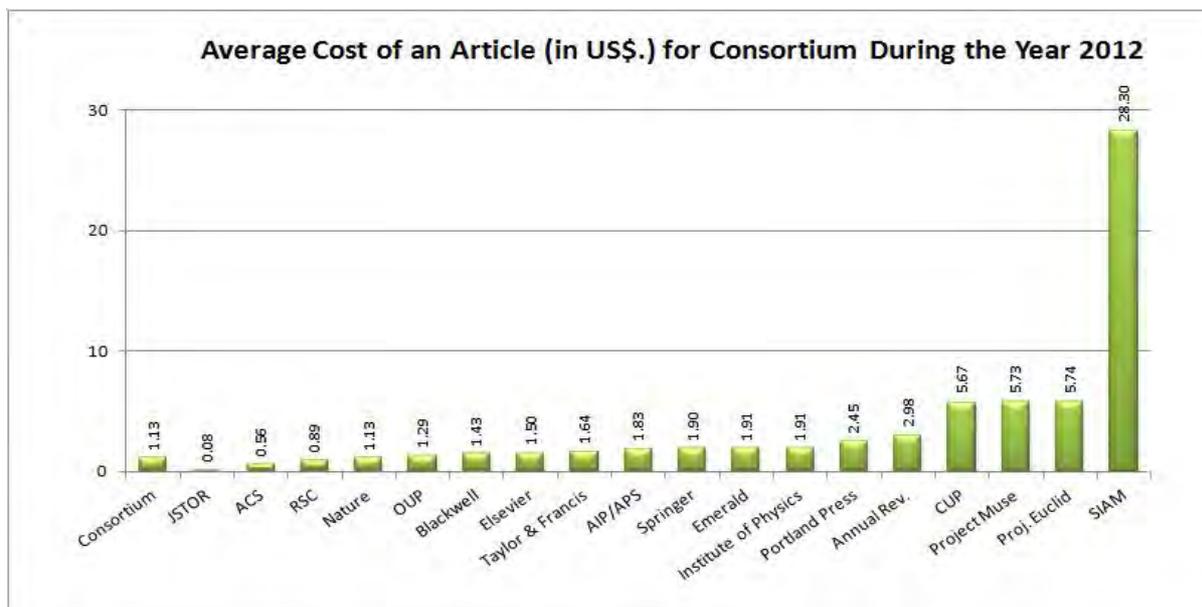


Fig. 27: Average Cost of an Article (in USD) for Consortium during the Year 2012

Over the last few years, the cost of an article has reduced due to increase in usage of the resources. The bar chart given in figure 28 plots average cost per article for the e-journals over a period of 5 years, i.e. 2007-2012.

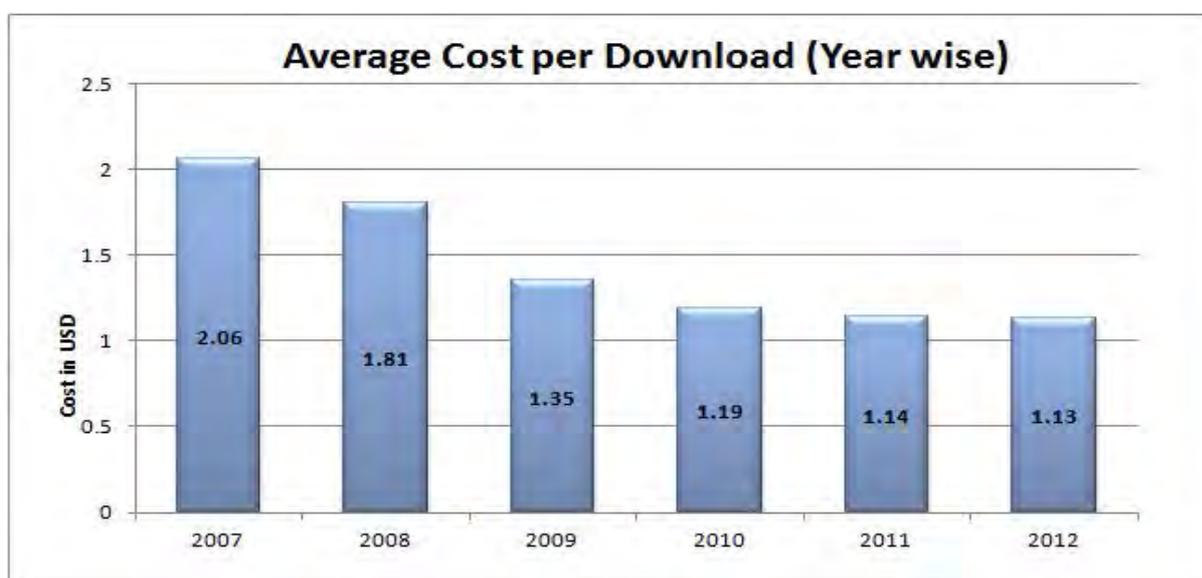


Fig. 28: Average Cost of per Download (in USD) for Consortium from 2007 to 2012

7.8.1.6. Document Delivery through JCCC

The JCCC@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. JCCC 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 13,300+ journals including 3278 open access journals, 7,900+ journals subscribed by the consortium and 4,000+ journals subscribed

by the ILL Centres. The JCCC 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, 4,366 ILL requests were received from member universities for the INFLIBNET Centre and 4,342 requests were fulfilled. The numbers of requests made by member universities are given in Table 15 below:

Sl. No.	Institution Name	*DDR-F	+DDR-P	#DDR-UF	Total
1	Annamalai University	389	0	2	391
2	Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya	384	0	0	384
3	Sree Sankaracharya University of Sanskrit	292	0	6	298
4	Gulbarga University	289	0	1	290
5	Acharya Nagarjuna University	285	0	0	285
6	Berhampur University	275	0	1	276
7	Manonmaniam Sundaranar University	244	0	0	244
8	Babasaheb Bhimrao Ambedkar University	203	0	3	206
9	North Maharashtra University	189	0	0	189
10	Periyar University	182	0	1	183
11	Jiwaji University	140	0	0	140
12	Dayalbagh Educational Institute	125	0	0	125
13	Tata Institute of Social Sciences	106	0	1	107
14	Banasthali University	95	0	2	97
15	Yashwantrao Chavan Maharashtra Open University	97	0	0	97
16	Ghandhigram Rural Institute	86	0	2	88
17	Mohanlal Sukhadia University	82	0	0	82
18	Central University of Kerala	69	0	1	70
19	Kuvempu University	68	0	0	68
20	Central University of Karnataka	60	0	1	61
21	Others	682	0	3	685
	Total	4342	0	24	4366

*DDR-F: Document Delivery Request – Fulfilled

+DDR-P: Document Delivery Request - Pending

#DDR-UF: Document Delivery Request – Unfulfilled

Table 15: Document Delivery Requests made by Different Universities

During the period under report, a total number of 14,463 requests were received by the 26 ILL Centres and INFLIBNET from all the member universities and 11,666 were fulfilled as per the details given below in Table 16:

Sl. No.	Institution Name	*DDR-F	+DDR-P	#DDR-UF	Total	% of fulfilled
1	Aligarh Muslim University	0	19	0	19	0
2	Annamalai University	187	18	81	286	65.38
3	Assam University	0	113	0	113	0
4	Banaras Hindu University	0	2	0	2	0
5	Banasthali Vidyapith	195	0	58	253	77.08
6	Bangalore University	4342	0	24	4366	99.45
7	Birla Institute of Technology and Science	1	0	0	1	100
8	Jadavpur University	258	0	314	572	45.1
9	Jawaharlal Nehru University	0	354	0	354	0
10	Kurukshetra University	0	50	0	50	0
11	Mangalore University	0	0	0	0	
12	North-Eastern Hill University	52	29	53	134	38.81
13	Pandit Ravishanker Shukla University	0	42	0	42	0
14	Panjab University	99	74	7	180	55
15	Pondicherry University	38	5	130	173	21.97
16	Punjabi University	71	16	30	117	60.68
17	Rashtrasant Tukadoji Maharaj Nagpur University	0	86	0	86	0
18	Sardar Patel University	0	6	0	6	0
19	Tata Institute of Social Science	1105	2	284	1391	79.44
20	The Maharaja Sayajirao University of Baroda	107	42	104	253	42.29
21	University of Delhi	646	1	144	791	81.67
22	University of Hyderabad	114	57	172	343	33.24
23	University of Kolkata	32	0	352	384	8.33
24	University of Madras	1	22	0	23	4.35
25	University of Pune	73	1	69	143	51.05
26	University of Rajasthan	3	0	12	15	20
27	INFLIBNET	4342	0	24	4366	99.45
	Total	11666	939	1858	14463	80.66

*DDR-F: Document Delivery Request – Fulfilled

+DDR-P: Document Delivery Request - Pending

#DDR-UF: Document Delivery Request – Unfulfilled

Table 16: Document Delivery Requests Received by 26 ILL Centres

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

Jagdish Arora, Director
Ashok Kumar Rai, Scientist D (CS)
Kruti Trivedi, Scientist B (LS)
Dinesh Pradhan, STO – I (LS)
Saroja Kumar Panda, STA-II (LS)
Pallavi, Project Officer (LS)
Jaynil Gandhi, Project Associate (CS)

The Project entitled "National Library and Information Services Infrastructure for Scholarly Content (N-LIST)" is funded by Ministry of Human Resource Development (MHRD) under its National Mission on Education through ICT. The N-LIST was formally launched by Honourable Shri Kapil Sibal, the then Union Minister of Human Resource Development on 4th May, 2010 at Shastri Bhawan, New Delhi. The project provides for access to scholarly content to colleges, universities as well as centrally-funded technical institutions through its four distinct components, i.e. i) UGC-INFONET e-resources to technical institutions (IITs, IISc, IISERs, NITs, etc.); ii) INDEST e-resources to universities; iii) E-resources to Govt.-aided / non-aided colleges; and iv) National Monitoring Agency at the INFLIBNET Centre to manage access, monitor, promote and impart training to promote optimal usage of e-resources and for monitoring all activities involved in the process of providing effective and efficient access to e-resources to colleges.

The INDEST-AICTE Consortium and the UGC-INFONET Digital Library Consortium are jointly responsible for activity listed at i) and ii) above. The UGC-INFONET Digital Library Consortium, INFLIBNET Centre, Gandhinagar is responsible for activities listed at iii) and iv) above. The INFLIBNET Centre is also responsible for developing and deploying appropriate software tools and techniques for authenticating authorized users so as to enable them to access e-resources.

Under its cross subscription component, the N-LIST programmes subscribes to Web of Science for 100 universities, Annual Reviews (33 journal titles), Nature (27 journal titles), Project Muse (400+ journal titles), Taylor and Francies (1173 journal titles) and JSTOR (2500 journal titles) for 55 technical institutions including IITs, IISc, IISERs and selected NITs. Besides, more than 6,000 e-journals and 97,333 e-books are subscribed for colleges component of N-LIST. The N-LIST programme covers almost all subject disciplines except medicine, pharmacology, engineering and technology for colleges. It covers all relevant areas taught in colleges such as arts & humanities, social sciences, physical and chemical sciences, life sciences, computer sciences, political sciences, library and information science, law, business, mathematics, statistics, etc.

A separate website is maintained for the National Library and Information Services Infrastructure for Scholarly Content (N-LIST) as shown in Figure 29.



Fig. 29: Website of the National Library and Information Services Infrastructure for Scholarly Content (N-LIST)

7.8.2.1 Current Status

The programme has registered a total number of 3,255 colleges as on March 31, 2013 including 2,978 eligible colleges that are already getting access to resources subscribed under the N-LIST programme. Log-in IDs and passwords have been issued to more than 4,78,278 faculty members, students and researchers after obtaining list of authorized users from these 2,978 eligible colleges. Group login ID and passwords have also been issued to colleges awaiting list of actual users. Efforts are being made to enrol more colleges through advertisements in newspapers as well as by organizing training and orientation programmes through affiliating universities and regional offices of the UGC.

7.8.2.1.1 Subscription / Purchase of Additional Resource: JSTOR

During the year under report, the N-LIST programme has subscribed to an additional resource called JSTOR for all member colleges as well as for 55 technical institutions under its cross subscription component. JSTOR is archival database of scholarly journals. It preserves over two thousand five hundred academic journals in both digital and print formats, and continues to expand access to scholarly works and other materials needed for research and teaching globally. 1,000 books titles from Sage publications has also been purchased for colleges in areas of business & management, counselling, criminology, education, geography, health & social care, media & communication, politics & international relation, psychology and sociology. Moreover, additional 800 titles from Springer, Taylor & Francis and Cambridge Book Online and 500 titles from Oxford Scholarship Online have also been purchased during the year under report.

7.8.2.2. Governance

The N-LIST is being jointly executed by the UGC-INFONET Digital Library Consortium, INFLIBNET Centre and the INDEST-AICTE Consortium, IIT Delhi under the overall guidance of a National Steering Committees of the two consortia that guide and steer the activities of the N-LIST programme. Decisions on policy issues are taken in the joint Meetings of the NSCs of two consortia under overall policy directions of the National Mission on Education through ICT. The Joint Committee of the NSC and sub-committees appointed by it take decision on e-resources to be subscribed through various publishers and their accessibility to beneficiary institutions. The INFLIBNET Centre acts as a Monitoring Agency for implementation, monitoring and execution of the entire programme.

Besides National Steering Committees of the two consortia, a Joint Negotiation Committee, with representations from both the Consortia, is constituted for negotiating rates of subscription to e-resources with publishers.

7.8.2.3. Beneficiary Institutions

The following three sets of institutions are benefitting from the N-LIST Project:

- i) 100 universities covered under Phase I & II of the UGC-INFONET Digital Library Consortium can access Web of Science.
- ii) IITs, IISc, IISERs and selected NITs (i.e. 55 core members of the INDEST-AICTE Consortium) can access selected e-resources namely Annual Reviews, Project Muse, Nature, Taylor & Francis and JSTOR.
- iii) All Govt.-aided and non-aided colleges (except engineering, management, medical, nursing, pharmacy and dentistry colleges) are eligible to access selected electronic resources including electronic journals, electronic books and bibliographic databases. These resources include more than 5,000 e-journals and 97,333 e-books.

7.8.2.4. Increase in Number of Colleges

The total number of colleges enrolled for the N-LIST programme was 703 on May 4, 2010, when it was formally launched by Honourable Shri Kapil Sibal, the then Union Minister of Human Resource Development. Figure 30 given below reflects consistent increase in number of colleges who joined the NLIST Programme during the Financial Year January 2011 to March 2013. The number of colleges that have joined the N-LIST Programme has increased from 1,116 in January 2011 to 2,978 by the end of March 2013.

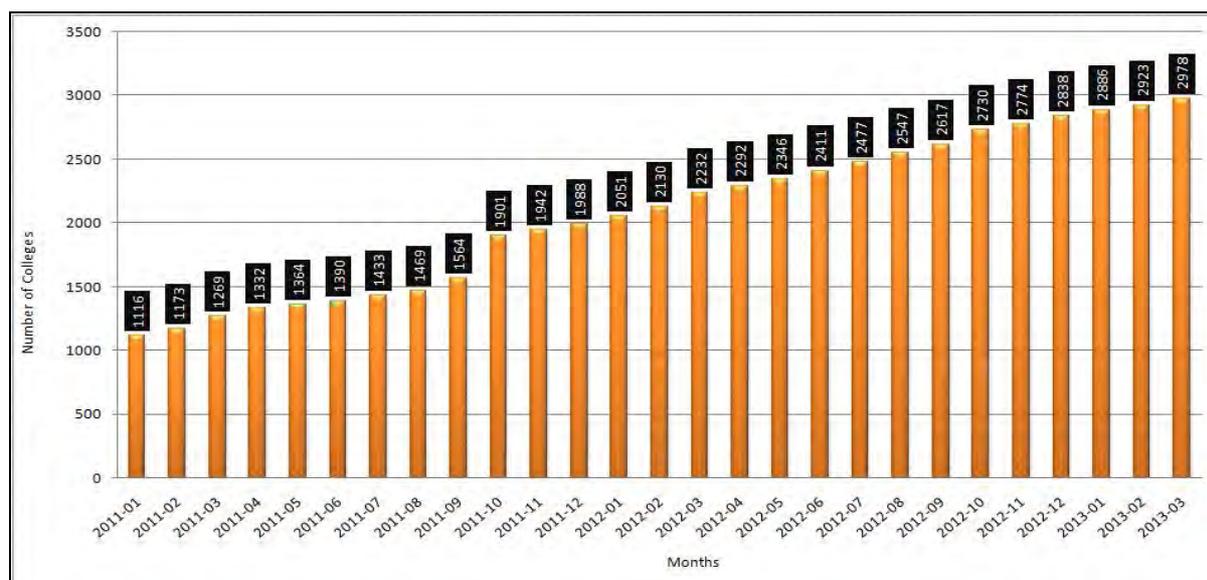


Fig. 30: Increase in Colleges under N-List for the Period 2012 – 2013

7.8.2.5. Electronic Resources Subscribed under the N-LIST Programme

7.8.2.5.1. Full-text Electronic Journals

The N-LIST programme subscribes to full-text e-journals 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. Table 17 given below lists electronics journals subscribed under the N-LIST programme.

Sl. No.	E-resources	Publishing Country	No. of Journals	Backfiles 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	Wilson Omnifile	USA	3,075	1982+
	Total		3,828	

Table 17: Full-text Electronic journals subscribed under N-LIST Programme

7.8.2.5.2. Electronic Books

Electronic books are either subscribed on annual subscription basis as in case of ebrary or are purchased on “one-time payment and perpetual access basis” as in case of all remaining publishers listed below. Total number of electronic books accessible to colleges under N-LIST programme exceeds 1,19,000 as revealed below in the Table 18.

Sl. No	E-book Name	Available Books	Purchased Books	Access Available
1	E-brary	83024+	83,024+	83,024+
2	Cambridge Books Online	13,966	1,800	6,000+
3	EBSCOHost-Net Library	4,436	936	4,436
4	Hindustan Book Agency	65	65	65
5	Institute of South East Asian Studies(ISEAS) Books	382	382	382
6	Oxford Scholarship Online	6,577	1,402	1,402
7	Springer eBooks	50,208	2,300	18,000+
8	Taylor Francis eBooks	40,000+	1,800	4,500+
9	Myilibrary-McGraw Hill	2,50,000	1,124	1,124
10	Sage Publication eBooks	2,700	1,000	1,000
11	Open Access (Net Library)		3,500	
	Total	4,51,358	97,333	1,19,433

Table 18: Electronic Book

7.8.2.5.3. Bibliographic Database

N-LIST subscribes to MathSciNet (American Mathematical Society) that covers reviews of articles in mathematics from 1944 onwards.

7.8.2.6. Implementation Methodology

E-resources identified for cross- subscription for universities and technical institutions are being made accessible to the beneficiary institutions on their respective IPs. However, since most of the colleges registered under the NLIST programme do not have static IP addresses, access to e-resources based on IP filtering cannot be implemented for colleges. Moreover, most of the publishers are reluctant to handle authentication of large number of users from thousands of colleges who had to be given freedom to enrol themselves with the N-LIST programme at anytime during the year as well as during the project period.

As such, the INFLIBNET Centre took the responsibility of authenticating users from registered colleges through proxy server deploying appropriate authorization and authentication mechanism. Individual users from colleges can directly access and download articles from journals and chapters from books

directly from publisher's website once they are duly authenticated as authorized users through the authentication mechanism deployed at the INFLIBNET Centre.

After closely examining all the access management technologies, the Centre has decided to implement Shibboleth as the authentication mechanism. However, implementation of Shibboleth is a time-consuming process requiring intensive software configuration, cooperation and collaboration amongst participating institutions, INFLIBNET as Identity Provider (IDP) and publishers as service provider (SP). While the Centre is working towards implementation of Shibboleth, meanwhile EZ-Proxy from OCLC has been implemented for authenticating registered users.

7.8.2.7. Cost-effectiveness of the N-LIST Programme

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

7.8.2.8. Analysis of Usage

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

7.8.2.8.1. Publisher wise Usage of E-journals

Figure 31, given below, shows number of articles downloaded by the users from different publishers during the financial year 2012 - 2013. It can be observed that JSTOR is highly used resource followed by Royal Society of Chemistry and Indian Journals. The usage of EPW and MathSciNet could not be analysed due to non-availability of usage data from both the publishers.

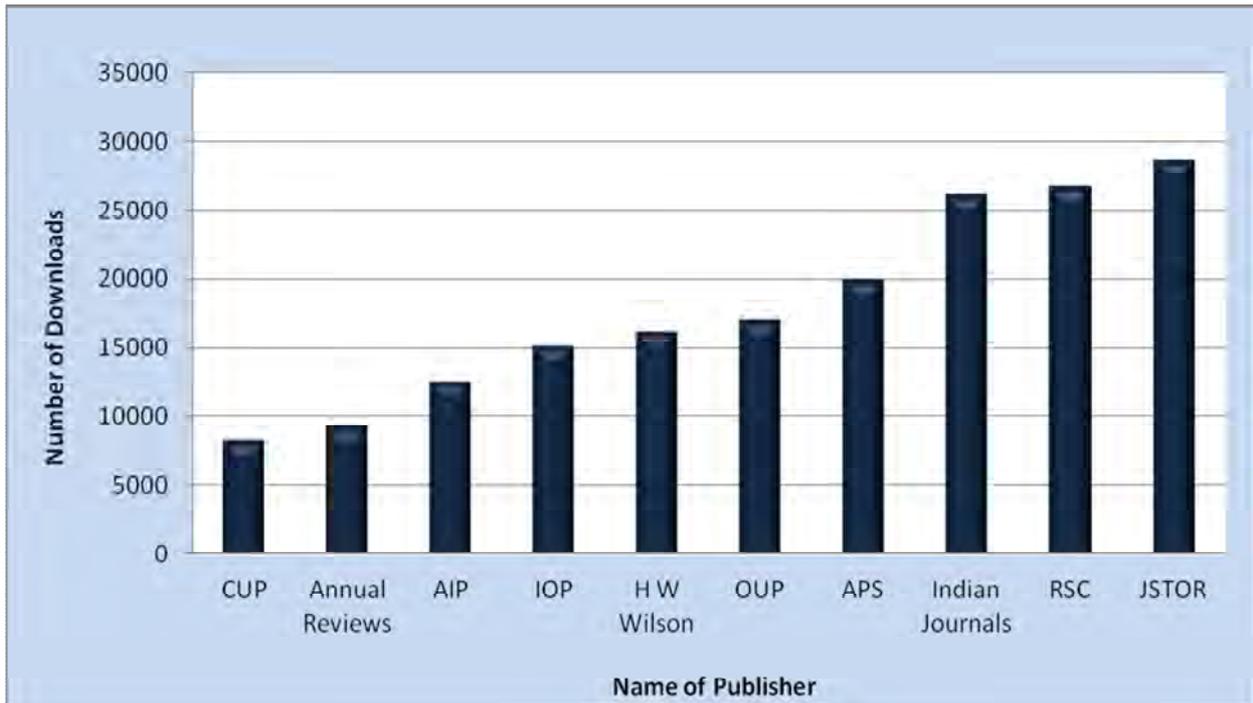


Fig.31: Publisher wise Usage of E-Journals 2012-2013

7.8.2.8.2. Publisher wise Usage of E-Books

Figure 32, given below, shows publisher wise usage of ebooks during the financial year 2012 - 2013. It can be observed that Ebrary is highly used resource followed by MyLibrary and Cambridge Books online.

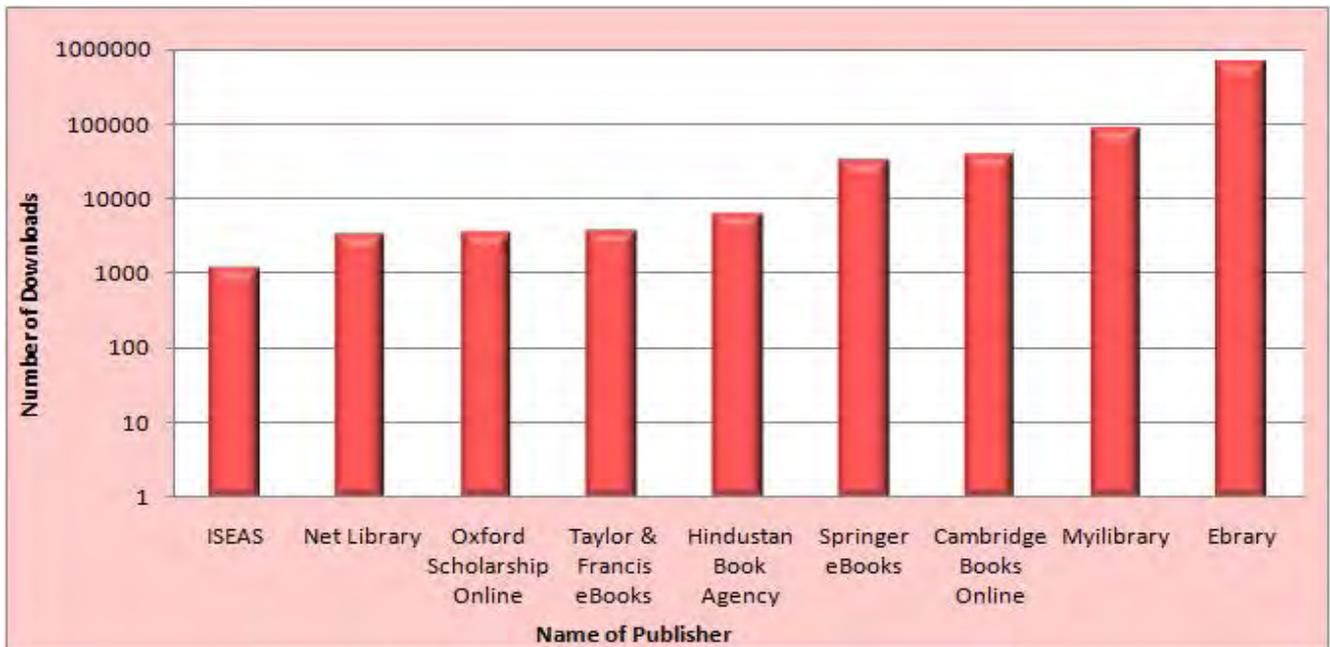


Fig.32: Publisher wise Usage of E-Books 2012-2013

7.8.2.8.3. Month wise Usage of E-Resources

Figure 33 given below reflects month wise usage of e-journals and e-books for the period January 2012 to March 2013.



Fig.33: Month wise Usage of E-resources for 2012-2013

7.8.2.8.4. Comparative Analysis of Usage from 2010-2013

Figure 34 given below shows comparative usage of various resources through in 2010 to 2012. The graph clearly reflects consistent increase in usage from 2010 to 2012 for all e-resources. There is an increase of 70% in overall usage of all the resources from 2011 to 2012.

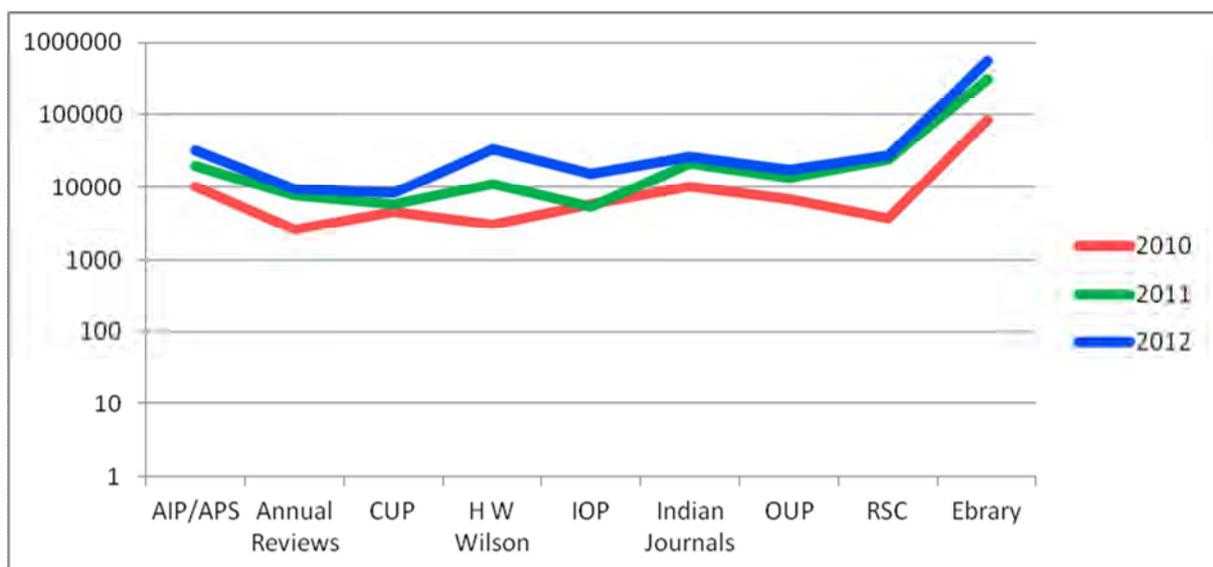


Fig.34: Publisher wise Usage from 2010-2013

7.8.2.8.5. 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 to generate usage statistics from the local proxy server deployed at INFLIBNET Centre. Figure 35 given below shows month wise unique visitors to N-LIST resources. The graph shows average 7,900 monthly users from 2,978 member colleges.

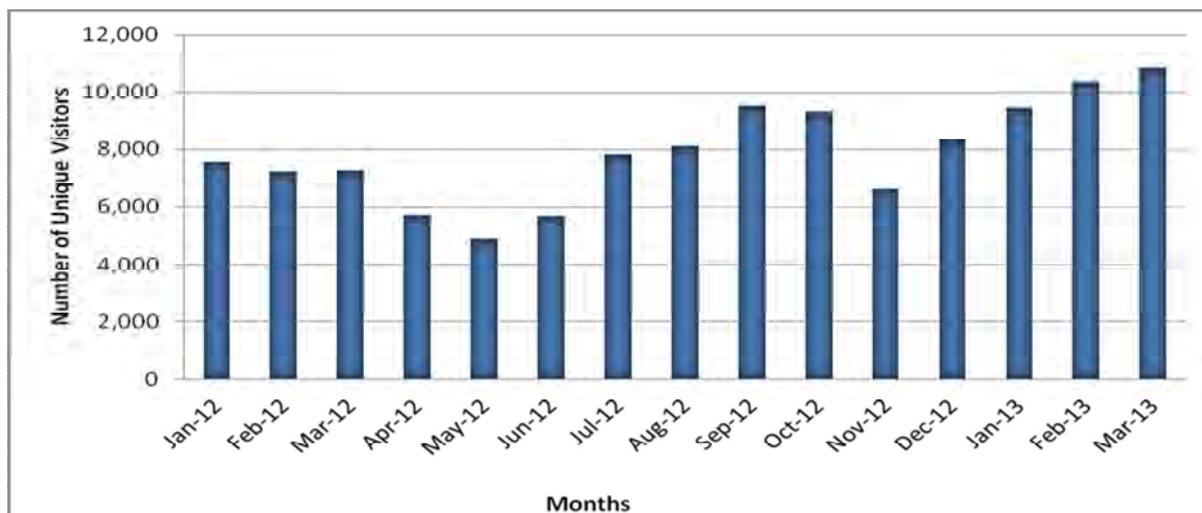


Fig. 35: Month wise Unique Visitors of the N-LIST Programme 2012 –2013

7.8.2.8.6. Month wise Pages Viewed

A total number of 53,13,415 pages were viewed by the users in member colleges from the subscribed e-resources. Figure 36 given below depicts month wise number of pages viewed by the users in member colleges.



Fig. 36: Month wise Pages Viewed 2012 -2013

7.8.2.9. Economics of N-LIST Programme

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

7.8.2.9.1. 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 37 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 2012 amounts to Rs. 54.56 crores as against the total expenditure of Rs. 6.66 crores with Rs. 47.89 crores as the cost of articles downloaded in excess.

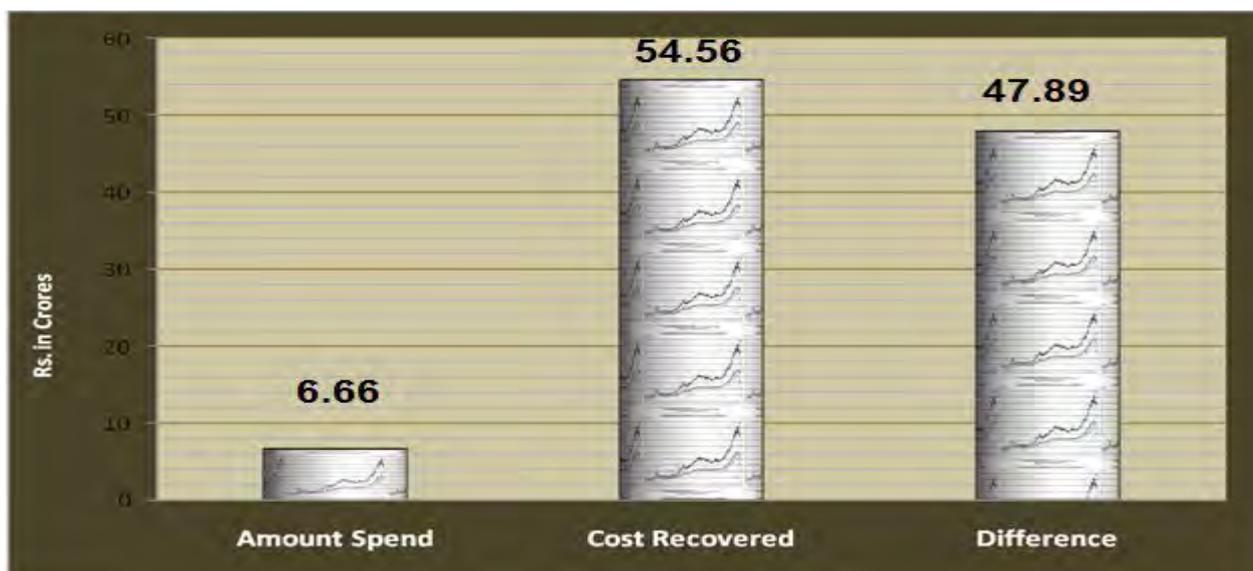


Fig.37: Cost Recovery Factor of e-Journals Subscribed under the N-LIST Programme for 2012

7.8.2.9.2. 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 15 subscriptions (on prorated basis) were paid for 2,232 colleges during the financial year under report.

7.8.2.9.3. 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 38 given below shows that there is a notional savings of Rs. 7,333.13 crores considering the fact that the same sets of resources on list price would have cost Rs. 7346.04 crores as against Rs. 12.90 crores spent under the N-LIST programme for the year 2012.



Fig. 38: Cost Avoidance 2012

7.8.2.9.4. 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%.

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

7.8.2.10.1. Average Cost of Journals per College

The N-LIST programme subscribes to a total number of 6,000 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. 4.39 in the year 2012 when only 2978 colleges were enrolled under the programme as shown in Table 19.

Name of E-Resources	No of Colleges	No. Res	Price per College per Title in Rs.
AIP-APS	1400	28	226.64
Annual Reviews	3000	33	31.13
CUP	2800	224	14.83
IndianJournals	2800	186	9.67
IoP	2000	46	34.79

OUP	2800	206	8.09
RSC	1400	29	102.01
HW Wilson	4000	3075	0.61
EPW	2800	1	787.50
Total	3000	3828	4.39

Table 19: Average Cost of Journals per College

7.8.2.10.2. Average Cost of E-books

Most of the e-books under the N-LIST programme is purchased for all existing 2,978 colleges on “one-time purchase and perpetual access basis” except Ebrary which is subscribed on annual subscription basis. As shown in Table 20, average cost per book per college varies from Rs. 0.06 in case of Ebrary to Rs. 21.08 in case of Hindustan eBooks.

Name od E-Books	No of Colleges	No. Res	Price per College per Title in Rs.
E-brary	4000	83024	0.06
Oxford Scholarship Online	800	1402	4.21
Springer	800	2300	15.65
Taylor & Fransis	800	1800	6.68
Cambridge Books Online	800	1800	4.31
McGraw Hill	800	1124	5.09
Hindustan	800	65	21.08
Institute of South East Asian Studies	800	382	20.50

Table 20: Average Cost of E-books

7.9. New Format for the UGC-Infonet Connectivity Programme

While the UGC-Infonet connectivity programme stands winded up as on 31st March, 2012 with migration of all universities to NKN/NME-ICT that provide 1 Gbps connectivity to all universities. However, while NKN will successfully take-up the task of providing greater Internet bandwidth to all universities, it was considered desirable to redefine and reformat the UGC-Infonet Scheme with an aim to assist member universities for inclusive development and to make better use of greater connectivity made available to the universities through NKN.

The Central Connectivity Monitoring Committe (CCMC) in its Meeting held on 25th May 2011 at ISID, New Delhi discussed the proposal regarding augmentation of ICT infrastructure at universities and strongly recommended the modified version of UGC Infonet Scheme. The committee also discussed and deliberated on the roles and responsibilities of universities and the responsibilities of INFLIBNET in order to have inclusive growth of university system.

The new format for UGC-INFONET scheme proposed to the UGC provides for:

- Data Centre at INFLIBNET Centre as well as in universities in different geographical regions for

hosting scholarly content from universities including lecture notes, class room lectures, teaching materials, etc.;

- b. UGC-INFONET Resource Centre at every university consisting of Institutional Repository and PCs to access electronic resource provided through the UGC-Infonet Digital Library Consortium; and
- c. Video conferencing facility where adequate ICT infrastructure is available.

Detailed proposal with methodology for implementation of the new scheme, budget, responsibilities of universities, INFLIBNET etc. was submitted to the UGC in its XII Plan projections. Overall expenditure on the UGC Infonet modified scheme is estimated to be Rs. 9,219 Lakhs during XII Plan Period.

7.10. 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 interfaces 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

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

Ashok Kumar Rai, Scientist D (CS)

The Centre maintains comprehensive Websites in English and Hindi as shown in figure 39. 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.
- »» Wiki, weblog, RSS feeds and online chat



Fig. 39: INFLIBNET's Website in English and Hindi

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

7.10.2. Intranet (<http://192.168.1.72/>; for INFLIBNET Staff Only)

A separate Intranet website is maintained for the internal staff of the Centre as shown in Figure 40. 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.

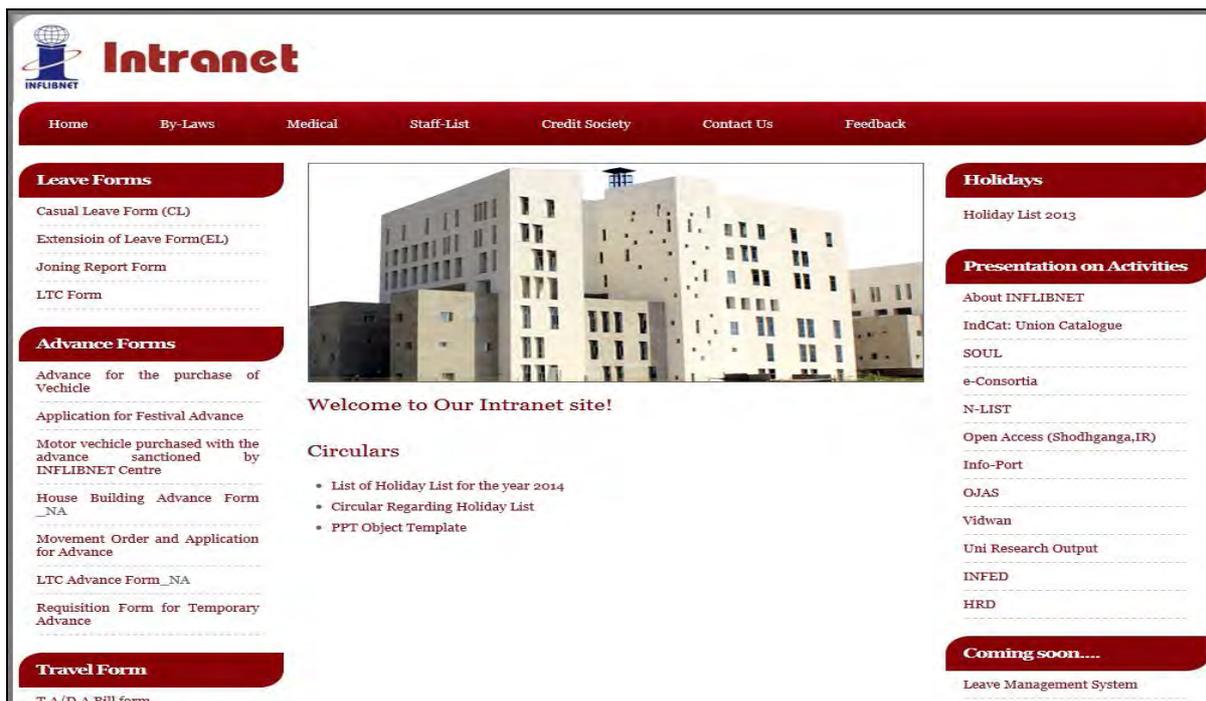


Fig.40: INTRANET Website

7.10.3. Implementation of Web 2.0 Technologies at the Centre

The INFLIBNET Centre has entered into the world of Web 2.0 and Library 2.0 with implementation of interactive and collaborative technological tools 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.

7.11. Shibboleth based Access Management System

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

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

The federation and its website (parichay.inflibnet.ac.in) has been created with all documentation. Identity provider has been created for NLIST 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.

7.12. 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.

8. Conventions – 9th International CALIBER 2013

9th International CALIBER 2013

The 9th International CALIBER 2013 was organised by the INFLIBNET Centre at New Building of INFLIBNET Centre, Infocity, Gandhinagar from 21st to 23rd March 2013 on the theme “Library Vision 2020: Moving Towards Future”. The main theme of the convention was divided into three sub-themes i.e. Migration Towards Future, Collaborative Library Services and Open Access and Open Content. More than 300 delegates registered for the convention including delegates from Sri Lanka, UK and USA as shown in figure 41. Out of 200 submissions, 51 papers were selected for presentations and 23 papers were selected for poster presentations.

Inaugural Session

Shri Yatrik Patel, Scientist D (CS), INFLIBNET Centre, Organizing Secretary welcomed the dignitaries on the dais as well as guests and the participants. Padmavibhushan Prof. Yash Pal, National Research Professor inaugurated the convention. Prof. Pal, in his inaugural address, explored the divergence in growth of knowledge and segregated specialization among different disciplines and creating cross roads amongst various disciplines, developing interconnectivity among various zones of knowledge and facilitating access to learning without walls of tight jacketed subjects offering flexibility in learning various subjects at will of students. He expressed his pleasure on the role and activities of the INFLIBNET Centre, offering unhindered access to knowledge in enabling academic content creation, and leading the LIS profession in the country towards 2020 and beyond. Dr. Jagdish Arora, Director, INFLIBNET Centre welcomed the guests and participants to the convention. He presented an overview of the INFLIBNET Centre and highlighted its recent initiatives. Dr. R. K. Chadha, Additional Secretary, Lok Sabha, as

Conference Director highlighted the theme and sub-themes of the convention. Prof. S. K. Khanna, Former Chairman, Governing Board and Chairman, Building Committee, INFLIBNET Centre, delivered a special address on the occasion. In his special address, he admired and acknowledged great vision of Prof. Yash Pal that became instrumental in creation of Inter-university Centres, which was the first of a kind, established in India. He also highlighted the equality given to the Library Science Professionals as a Faculty in University and also giving the equivalent pay scales and hence the platform was laid for improved library services only by efforts of Prof. Yash Pal. Prof. B. V. Doshi, Renown Architect delivered special address. In his address, he mentioned that vision for design of INFLIBNET Building was first put on paper and then gradually transformed into a wonderful home for Knowledge in the form of INFLIBNET's Institutional Building which was only possible with closed interaction between several experts including Scientists and Director of the Institute. He mentioned that the building is a very lively project rather than shear box of concrete designed with help of his grand son-in-law having Administrative, Academic & Residential Blocks which gives comfort, flexibility and adaptability. Dr. Jayanti S. Ravi, IAS, Commissioner of Higher Education, Govt. of Gujarat, delivered the keynote address. In her Keynote address, she elaborated on current education landscape in India, ways and means to help students in higher education through ICT, improving the quality of the education system through 5Es viz. "Enrollment, Excess, Equality, Excellence and Equity".



Fig. 41 : Dignitaries on the Dias (from left to right) Shri Yatrik Patel, Scientist D(CS), INFLIBNET Centre, Prof. B.V. Doshi, Renown Architect, Dr. R. K. Chadha, Additional Secretary, Lok Sabha, Padmavibhushan Prof. Yash Pal, National Research Professor, Prof. S. K. Khanna, Former Chairman, Governing Board, INFLIBNET Centre, Dr. Jagdish Arora, Director, INFLIBNET Centre, Dr. Jayanti S. Ravi, IAS, Commissioner of Higher Education, Govt. of Gujarat and Shri H. G. Hosamani, Scientist C (LS), INFLIBNET Centre during Inaugural Session of CALIBER 2013

Dignitaries on the dias released proceedings of International CALIBER 2013, CD and Convention souvenir published on the occasion. Shri H. G. Hosamani, Scientist C (LS) Convener of the Convention extended a warm vote of thanks. Prof. Muttayya Koganuramath, Professor & Head, Department of Library and

Information Science, Central University of Gujarat, Gandhinagar was the Rapporteur General of the Convention.

Tutorials

Three tutorials, namely, "Shodhganga", "N-LIST" and "Server Virtualization for Universities: do more with less" were organised for the benefit of delegates of the Convention. The tutorial on "Shodhganga: A reservoir of Indian Theses" was delivered by Shri Manoj Kumar K., Scientist D (CS), INFLIBNET Centre and "N-LIST Programme" was delivered by Shri Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre and chaired by Dr. Mohmmad Imtiyaz Ahmed, Deputy Librarian, Pt. Ravishankar Shukla University, Raipur. The tutorial on "Server Virtualization for Universities: do more with less " was delivered by Shri Maitreya Parikh, CISCO System Inc. and chaired by Dr. Pawan Gupta, Adjunct Professor and Former Director, Rajasthan University Library, Jaipur. Registrations for these tutorials were free.

Technical Sessions

The following theme papers were presented by the experts during the convention as shown in table 21:

Sl. No.	Name of the Theme paper	Name of the experts
1	Migration towards Future	Mr. Aly Conteh, Digital Programme Manager at British Library, Peterborough, UK Dr. Ramesh C Gaur, University Librarian, JNU, New Delhi Dr. Anil Kumar, Librarian, IIM, Ahmedabad
2	Collaborative Library Services	Dr Michael Witt, Assistant Professor of Library Science & Interdisciplinary Research, Purdue University, USA
3	Open Access and Open Content	Mr Walter Kny, Global Strategic Partnership Director, Marketing and Business Development, World E-Book Library, WPLA, Kosice, Slovakia Prof. S. M. Shafi, Head, Department of Library & Information Science, Kashmir University, Srinagar

Table 21: Invited Experts with their Topics of Presentations

The convention was organized into the following 6 technical sessions, wherein 39 presentations were made including the presentations on the theme papers as shown in table 22:

Technical Session	Theme of the Session	Chairperson	Co-Chairman/ Rapporteur	No. of Papers	No. of Papers Presented
Session 1	Migration towards Future (Part-1)	Dr. M. K. Bandi, Librarian, Mangalore University, Mangalore	Dr. K. B. Agadi, Asst. Librarian, Central University of Gujarat, Gandhinagar	7	4
Session 2	Migration towards Future (Part-2)	Shri Prem Chand, Librarian, IIAS Shimla	Shri Suresh K. Chauhan, Librarian, Jaipuria Institute of Management, Noida	10	6
Session 3	Collaborative Library Services (Part-1)	Dr. J. K. Vijaykumar, KAUST, Saudi Arabia	Dr Shivshankar Ghumre, Librarian, Matsyodari Shikshan Sanstha"s, Arts, Commerce and Science College, Ambad (Jalna)	12	6
Session 4	Collaborative Library Services (Part-2)	Shri Yogendra Singh, Librarian, IIT Roorkee	Dr. J .P. Srivastava, Dy. Librarian, IIT, Delhi	22	9
Session 5	Open Access and Open Content (Part-1)	Dr. M. S. Rana, Librarian, Hemwati Nandan Bahuguna University, Garhwal, Srinagar	Dr. Sanjay Kumar Singh, Reader, Dept of LIS, Guahati University, Guwahati	10	5
Session 6	Open Access and Open Content (Part-2)	Dr. Naga Ratna Mani, Librarian, Gitam University, Vishakhapatnam	Shri D. Jotwani, Librarian, IIT Bombay / Dr. Yogesh R. Parekh, Librarian I/c, Gujarat University	5	3

Table 22: Chairpersons and Rapporteur of the Sessions



Fig. 42: Participants of the 9th International CALIBER 2013

Panel Discussion

A panel discussion on the theme of the Convention "Library Vision 2020: Moving towards Future" was organized prior to the concluding session of Convention. Dr. C. R. Karisiddappa, Emeritus Professor, Department of Library & Information Science, Karnatak University, Dharwad, Dr. Pawan Kumar Gupta, Adjunct Professor and Former Director, University of Rajasthan, Shri Yogendra Singh, Librarian, IIT Roorkee, Dr. Th. Khomdon Singh, University Librarian, Manipur University, Imphal, Dr. Gopakumar V, University Librarian, Goa University, Goa and Dr. D. Jotwani, Librarian, IIT Bombay were panelists for the session. Dr. C. R. Karisiddappa, emphasized on the education of LIS in India and e-learning programme in LIS education. Dr. Th. Khomdon Singh, discussed about relationship between librarian and development of library profession in India. Shri D. Jotwani, elaborated that library, as a concept, system and phenomena can broadly be derived into four broad areas i.e. library as a place, library as Knowledge resources, technologies and librarians. Dr. Pawan Gupta, discussed about what libraries should do and should not do using ICT tools and applications.

Valedictory Session

Shri H G Hosamani, Convenor, CALIBER 2013 welcomed the guests during the Valedictory session. Dr. Jagdish Arora delivered presidential address and stressed upon takeaways from the convention. Dr. R. K. Chadha, Additional Secretary, Lok Sabha and Conference Director delivered special address. Prof. Muttayya Koganuramath, Professor & Head, DLIS, Central University of Gujarat, Gandhinagar and the Rapporteur General of the Convention presented a brief overview of the three days conventions. Prof. S. K. Khanna, former Chairman, Governing Board, INFLIBNET Centre gave valedictory address. Shri Yatrik Patel, Organizing Secretary presented a vote of thanks on behalf of INFLIBNET Centre.

Recommendations of the Convention

Following recommendations emerged from the discussions and deliberations during the three-day convention:

- ▶▶ Librarians are the best knowledge managers as they possess technical know-how about organizing tacit and explicit knowledge, as well as practice techniques of information storage and retrieval. However, librarians must train themselves in the use of new tools and techniques of ICT and its use in the process of organisation, storage and retrieval of knowledge resources.
- ▶▶ It is inferred from the presentations of papers that the future libraries would require revised benchmarks for evolved infrastructural facilities and services. In the context of environment assessment and evaluation in the academic environment, formulation of renewed parameters of benchmarking and the best practices in the context of emerging future libraries is envisaged. The convention hence resolved and recommended undertaking suitable steps in this context, INFLIBNET should play a pivotal role of defining renewed parameters of benchmarking and best practice.

-
- ▶▶ The growth of information industry is quite visible now and the output of varieties of information and knowledge resources is on the rise. In this context it is recommended that suitable training programmes on “Information Literacy Programmes” be undertaken.

 - ▶▶ The last two decades have witnessed a tremendous growth in e-resources, in the form of e-journals, e-books, online databases, online courseware, etc. There is a need for concentrating on the “management of e-resources” and the programmes and courses on the management of new kinds of information and knowledge resources should be focused more intensively than before. The convention recommended that INFLIBNET Centre should design specialized training programmes on e-resources management to prepare the LIS professionals for the future.

 - ▶▶ There is a growing impetus on the availability of open source software and open access resource through open journals and IRs and self-archiving. The deliberations in the convention revealed that the pace of building IRs is moderate and sporadic. As such, there is an urgent need to initiate suitable actions to intensify the process of building open access resources at all levels and in all sectors viz., education, industry and government.

9. Central Facilities

9.1. 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 1,466 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 though the web OPAC at <http://library.inflibnet.ac.in>.

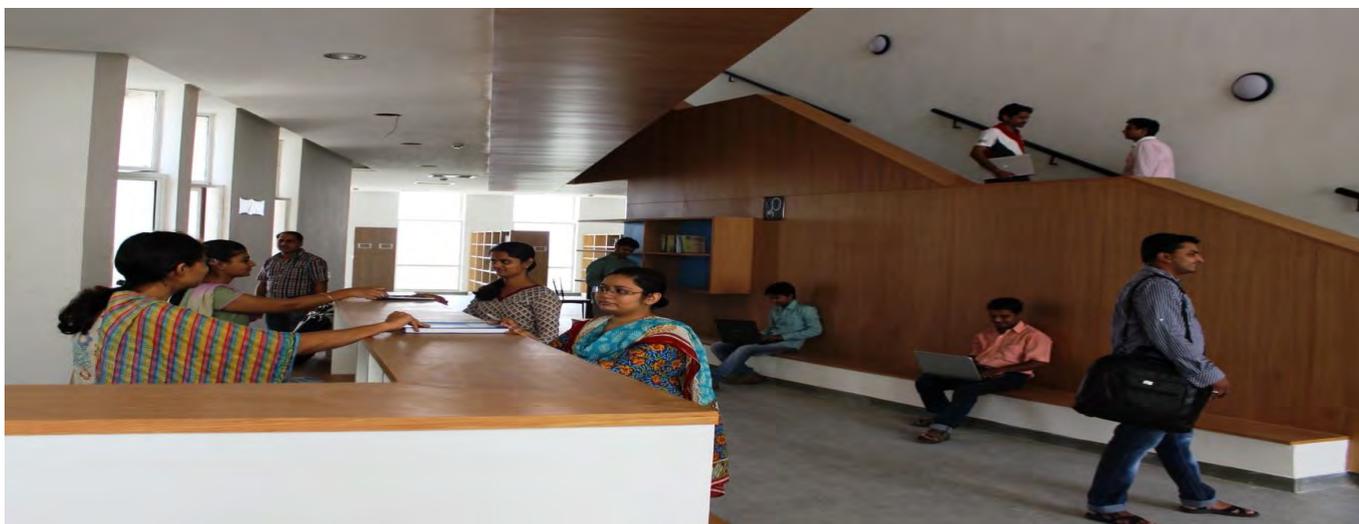


Fig.43: INFLIBNET Centre's Library

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.

9.1.1. 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

9.1.2. 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 NLIST programme has access to all e-journals, e-books and bibliographic database subscribed under these two programmes.

9.1.3. 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 in to the repository. The Repository also includes course materials, newspaper clippings, etc. The repository has 1,274 full-text articles.

9.1.4. 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

9.1.5. E-Journals Archival Library (Print Version)

The Centre has received issues of 286 journal titles from different publishers. During the year under report, issues of 100 journals each were received from the Taylor and Francis, Blackwell, Oxford University Press, Cambridge University Press, Institute of Physics and Royal Society of Chemistry.

9.2. Computer Network & Infrastructure

The Centre maintains basic infrastructural facilities such as Library, Computer Laboratories and Servers to support its essential activities. Important infrastructural facilities available at the Centre are as follows:

9.2.1. ICT Infrastructure for Institutional Building

Deployment of adequate ICT infrastructure is basic necessity for effective and efficient delivery of services rendered by the Centre. The ICT infrastructure includes software, networking and its proper deployment and is essential to everyday mechanics of an organization and integral to effective service delivery.

State-of-the-art active and passive IT and low voltage infrastructure components that were considered important in the new building were identified. The contract for system integration work for passive and active IT and Low Voltage Infrastructure of the new institutional Building at Infocity, Gandhinagar was awarded to M/s. Siemens Enterprise Communications.

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 tier-3 Data Centre with precision A/C, CAT 7A cabling with OM4 Grade Fibre, Building Management System (BMS) with automated fire detection, fire suppression, access control, biometric access control, sophisticated UTM (Unified Threat Management System).

9.2.2 PCs, Laptops and Servers

The main objective of the Centre is to provide proactive help to the universities in library automation and to mediate resource sharing amongst them. Computing and network infrastructure are the main assets of the Centre. The Centre has added a few more PCs and Laptops during 2012-2013 to the users with a total of 115 PCs and 19 laptops.

The Centre has procured IBM Blade server for its services and for data storage as well as for hosting mirror sites at BSNL and two IBM x3500 1U servers for email service, mailing list and web services and two IBM x3660 5U servers for R&D activity and Intranet in 2007-2008. In addition, one HP Blade Server Enclosure C3000 was procured from HP along with four ProLiant BL460c servers in 2009.

9.2.2.1. Campus-LAN and Internet Connectivity

The Centre provides most of its services through Internet 365 days a year, seven days a week and 24 hours a day. The network infrastructure is one of the most important components to provide efficient and effective services to the remote and local users. The Centre has up-upgraded network infrastructure that connects all laboratories and offices of the Centre with 10/100 Mbps structured cabling, Rack, I/Os, Jack panels, etc. As on now, the network is running over managed L2 switches.

The facility for Internet connectivity was established at the Centre in the year 1993-94 using dial-up connectivity of the ERNET. The Internet connectivity was enhanced to 2 Mbps in the beginning of XI Plan Period under the UGC INFONET Connectivity Programme through ERNET. The Internet connectivity was further enhanced to 10 Mbps with switching over of Internet Service Provider from ERNET to BSNL in 2010. As on date, the Centre has migrated to NKN, and is availing high-speed connectivity on 1 Gbps backbone connected to NKN network. The Centre has retained the BSNL connectivity with a reduced bandwidth of 2 Mbps for standby and load balancing. Dedicated firewall appliance is purchased with subscription to anti-virus, anti-spam, intrusion detection system. PCs and laptops used in the Centre are protected against attack and other vulnerability by Gateway level filtering and intrusion detection system using Cyberoam 50i UTM. User level antivirus protection is also enabled for end user protection.

The national union databases are being made accessible through this dedicated leased line. On an average, the INFLIBNET Web site and the national union databases attract more than 15,000 visitors per month.

10. 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:

A. Conference Proceedings in Print

- i) Arora, Jagdish et al (eds.). Library Vision 2020; Moving towards the Future: Proceedings of the 9th International CALIBER 2013, INFLIBNET Centre, Gandhinagar, March 21-23, 2013. Gandhinagar: INFLIBNET Centre, 2013. 491 p.

B. Papers Published in Journals, Newsletters and Conference Proceedings

- ii) Kumar, Abhishek. Learning Management System: ATutor for Academic Institutions. INFLIBNET Newsletter, 19(4), 19-22, 2012.
- iii) Arora, Jagdish and Trivedi Kruti. Assessing and Evaluating Research Performance of an Institution, using Bibliometric Indicators. INFLIBNET Newsletter, 19(3&4), 22-30, 2012.
- iv) Arora, Jagdish, Trivedi, Kruti J. and Kembhavi, Ajit. Impact of access to e-resources through the UGC-INFONET Digital Library Consortium on research output of member universities. *In: Current Science*, 104 (3), 307-315, 2013.
- v) Pallavi, Kumar, Abhishek and Thakur Archana. E-Learning: Initiatives in India. *In: Library Vision 2020: Moving Towards the Future/ Proceedings of the 9th International CALIBER 2013* organized by INFLIBNET Centre, Ahmedabad March 21-23, 2013 (eds. Jagdish Arora [et.al.]). Ahmedabad: INFLIBNET Centre, p. 458-469, 2013.

11. Awards, Honours and Distinctions

Jagdish Arora, Director

Dr Jagdish Arora joined as Director, INFLIBNET Centre for the second term of five years on August 31st, 2012 after successful completion of first term.

Dr. Jagdish Arora, as Chairman of the UGC's Expert Committee on Setting-up of New EMRCs in Selected Universities, visited Hemwati Nandan Bahuguna Garhwal University, Srinagar, Uttarakhand on 20th and 21st May, 2012. As a member of the Standing Committee on Content Creation (e- PG Pathshala) and its Sub-Committee, Dr. Arora attended several meetings of the Standing Committee and its sub-committees organized by the UGC at regular intervals. He is the Principal Investigator for e-content development in library and information science under e- PG Pathshala funded by the NME-ICT. He participated in the meeting of the Board of Study, Department of Library and Information Science, Kashmir University held on 6th July, 2012 as its member to evolve curriculum for the choice-based credit system in library and information science.

Dr. Arora was keynote speaker for the one-day Seminar on World e-Book Library organized at India International Centre, New Delhi on August, 11 2012. He made a presentation on INFLIBNET's activities

and services to the Honourable Minister of Human Resource Development on 2nd July, 2012, He delivered an invited talk on analysing usage statistics during JSTOR India User's Forum, held on 3rd Sept., 2012 and 5th Sept., 2012 in JNU, New Delhi and NIAS, Bangalore respectively. As a member of the Research Council of the NISCAIR, he attended its meetings held on 8th Sept., 2012.

As a member of the Governing Council, ERNET India and Recruitment and Assessment Board, CSIR, he attended their meetings held on 17th and 22nd October, 2012 respectively. Dr. Arora was nominated as member and convener of the Expert Committee on Library Consortium set-up by the MHRD and attended its meeting held on 31st October, 2012 in Planning Commission, New Delhi. As a member of the National Steering Committee of INDEST-AICTE Consortium, DeLCON and National Knowledge Resource Consortium, he attended their meetings held during the year.

Dr. Jagdish Arora delivered a talk on N-LIST on A View platform on 20th Nov., 2012 and 2nd January, 2013. The talk, delivered online on A View platform, was attended by several participants in universities and colleges across the country. He was the Chief Guest for valedictory session of NAACLIN-2012 held at M S University, Baroda on 21st Nov., 2012. He delivered an invited talk on NLIST and UGC-Infonet in the "Skill Symposium" organized by the NEUPA, New Delhi on 9th January, 2013. Dr. Arora delivered keynote address in the Inaugural Session of the INDEST Annual Workshop held on 18th January, 2013.

Dr. Arora was appointed as Adjunct Professor in the Centre for Library and Information Science of the Central University of Gujarat from July 2012 onwards. He is a member of the Library Advisory Committee of IIT Kanpur, Institute of Advanced Studies, Shimla and Sagar University, Sagar. Currently, he is serving as Chairman of the Governing Council, ADINET, Ahmedabad.

Ashok Kumar Rai, Scientist D (CS)

Shri Ashok Kumar Rai, Scientist D (CS) visited UK to attend the meeting of the Library Global Advisory Group 2012 of Oxford University Press (OUP-LAG 2012) held on May 25, 2012 at Oxford University Press Oxford UK. Shri Rai also visited Cambridge University Press (CUP) and British Library during his period of stay in UK from May 25-29, 2012.

12. 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. Three students of BE from Indus Institute of Technology and Engineering, one student of M.Sc (IT) from Institute of Science and Technology for Advanced Studies & Research and two students of BE from Gujarat Technical University 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.

13. Projects @INFLIBNET Centre

13.1. e-PG Pathshala

Jagdish Arora, Director
Abhishek Kumar, Scientist B (CS)
Kannan P. Scientist B (LS)
Mohit Dabas, STA (CS)
Shweta Brahmhat, Project Officer (CS)
Pallavi Project Officer (LS)
Jaynil Gandhi, Project Associate (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, it is proposed to create high quality, curriculum-based, interactive content in different subjects across all disciplines of social sciences, arts, fine arts and humanities, natural & mathematical sciences, linguistics and languages under this initiative named E-PG Pathshala.

The screenshot shows the website interface for e-PG Pathshala. At the top, it identifies itself as an MHRD project under the National Mission on Education through ICT (NME-ICT). The navigation bar includes links for Home, Student Corner, Uploaded Content, NME-ICT (MHRD), Other Open Learning Links, and Contact Us. The main banner features a graphic with 'Self-Assessment', 'Self-Learning', and 'E-Tests' components. Below this, a central section lists 77 subjects under the heading 'Course / Subjects @ ePathshala'. The subjects are: Anthropology, Biotechnology, Chemistry, Computational Sciences, Computer Science, Economics, English, Food Technology, Geography, History, Library and Information Science, Management, Mathematics, Philosophy, Political Science, Public Administration, Social Work Education, Statistics, Biochemistry, Botany, Commerce, Computational Social Science, Earth Sciences, Education, Environmental Sciences, Forensic Science, Hindi, Law, Linguistics, Mass Communication & Journalism, Microbiology, Physics, Psychology, Sanskrit, Sociology, and Zoology. The right sidebar contains sections for 'e-PG Pathshala' (Project Coordination, Team, Workflow, Guideline), 'Downloads' (Virtual visit of website, Workshop Brochure, Guidelines, etc.), and 'Uploaded e-Content' (Food Technology, Botany). The left sidebar includes 'NOTIFICATIONS', 'e-Content in-Progress', 'Login', 'Handouts', and 'Workshop' sections.

Fig. 44: Website of e-PG Pathshala

The INFLIBNET Centre is assigned the 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 the responsibility for content creation for two subjects i.e. Library Science and Information Technology in coordination with Gujarat University.

Major achievements made under e-PG Pathshala are as follows:

- Developed Guidelines for e-PG Pathshala and Content Writers along with templates for content creation;
- The Centre has configured an open source Learning Management System to host e-content created in the process (<http://epgp.inflibnet.ac.in>).
- Developed 'e-Pathshala Management System' 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 stack-holder (paper coordinator, content writers, language editors, and reviewers);
- Online interface for inviting the proposal for proposed subjects;
- One National Workshop and Seventeen Subject-based workshops conducted; and
- A few sample modules of food technology and library & information science were uploaded.

13.2. 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)", being jointly executed by the UGC-INFONET Digital Library Consortium, INFLIBNET Centre and the INDEST-AICTE Consortium, IIT Delhi, provides for access to scholarly content to colleges, universities as well as centrally-funded technical institutions. The programme is described in detail at 7.8.2.

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

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

Maulana Azad National Fellowship for Minority Students: Online applications were invited for this scheme for the years 2012-13. 5,462 applications were received and processed for the year 2012-13.

Rajiv Gandhi National Fellowship for SC/ST Candidates: 10,682 candidates have applied for the Scholarship for the year 2012-2013. Online applications received processed for the year 2012-13.

Post Graduate Scholarships for Professional Courses for SC/ST Candidates: Online applications were invited for this scheme for the years 2012-13. 4,353 applications were received and processed for the year 2012-13.

Post Doctoral Fellowship to SC/ST Candidates: 255 candidates and 929 candidates have applied for the year 2011-2012 and 2012-13. Online applications received and processed for further necessary action by the UGC.

Indira Gandhi Scholarship for Single Girl Child: 3,661 candidates have applied for the Scholarship for the year 2012-14. Online applications received and processed for further necessary action by the UGC.

P G Merit Scholarship for University Rank Holder: 1,545 candidates applied for the Scholarship for the year 2012-14. Online applications received and processed for further necessary action by the UGC.

Research Awards for the Teachers: 993 candidates applied for the Scholarship for the year 2012-14. Online applications received and processed for further necessary action by the UGC.

Post Doctoral Fellowship for Indian Scholars in United States: Online applications were invited for this scheme for the years 2012-13. 400 applications were received and processed for the year 2012-13.

Emeritus Fellowship: Online applications were invited for this scheme for the years 2012-13. 509 applications were received and processed for the year 2012-13.

13.4. Internet Connectivity to the UGC Head Office and NET Bureau in Delhi

The UGC has given the task of providing and monitoring Internet connectivity to the UGC Head Office as well as to its two offices vis-a-vis UGC Branch Office at 35 Ferozeshah Road, New Delhi and NET Bureau Office at South Campus of University of Delhi, Benito Juarez Marg, New Delhi to the INFLIBNET Centre. The INFLIBNET Centre, in turn, has provided the connectivity to the UGC Head Office as well as its other two Offices in Delhi through BSNL/MTNL at the discounted rates that were being charged for providing Internet connectivity to universities under the UGC Infonet connectivity Programme.

The Connectivity has been provided in time bond manner on 24*7 basis for seamless Internet access. The INFLIBNET Centre is also providing technical support for maintaining these three Internet Connections provided through BSNL/MTNL and also evaluating network requirement of the UGC for upgrading infrastructure for better services. Centre has recruited two technical staff under this project for maintenance and support.

14. Other Notable Activities and Events

14.1. Independence Day Celebration

The INFLIBNET Centre celebrated 66th Independence day on, 15th August 2012. The National Flag was hoisted by Dr. Jagdish Arora, Director, INFLIBNET Centre. Dr Arora addressed the staff members and their families. A number of games were organized for staff and their families during the event and prizes were distributed to the winners of the games.

14.2. 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 17th October 2012. The function started with Durga Puja, 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 performer, best-dressed person and children. The function concluded with the ceremonial dinner.



Fig. 45: INFLIBNET Centre's Staff with their family members during the Garba Celebration at the INFLIBNET Centre

14.3. Republic Day Celebration

The INFLIBNET Centre celebrated 66th Republic Day on 26th January 2013 at its new premises of INFLIBNET Centre, Infocity, Gandhinagar. The National Flag was hoisted by Dr. Jagdish Arora, Director, INFLIBNET Centre. Dr Arora addressed the staff members and their families wherein he touched upon the activities, growth and achievements of the Centre. Shri Manoj Kumar K., Shri Yatrik Patel, Scientist D (CS) and Shri Harish Chandra, Administrative Officer spoke on the occasion and exchanged greetings with the Staff. A number of games were organized for staff and their family members during the event and prizes were distributed to the winners of the games.

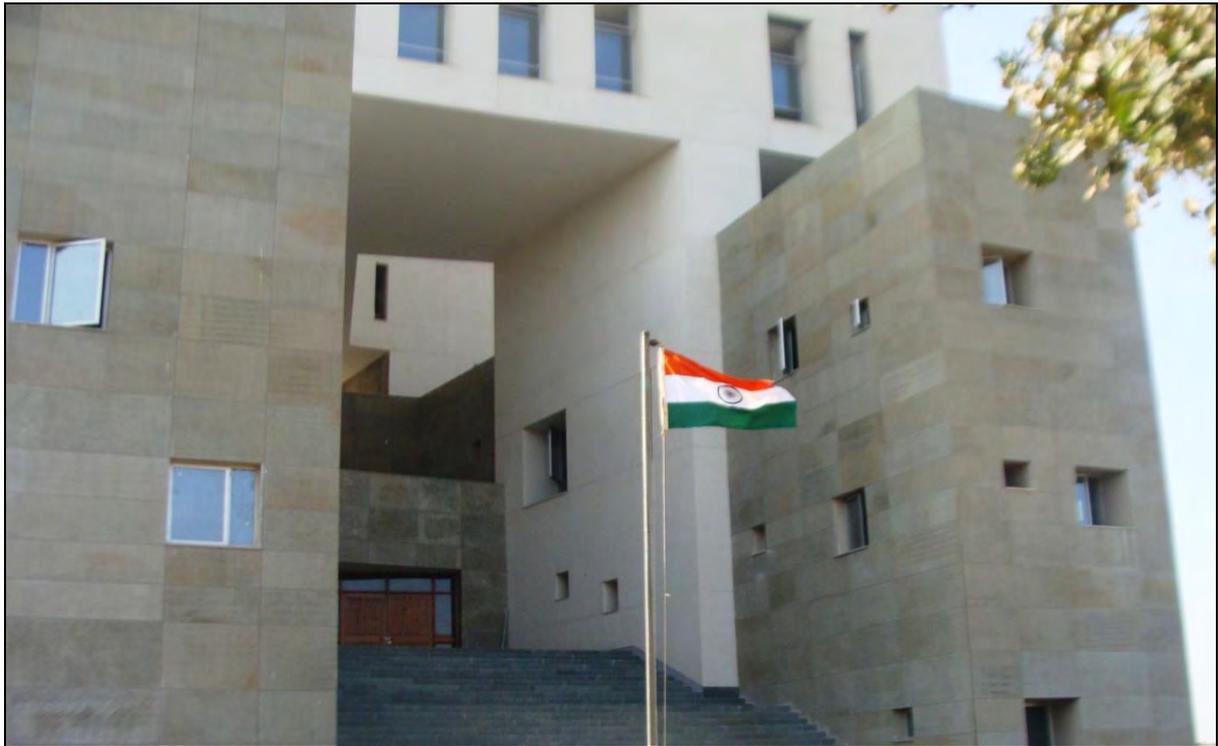


Fig. 46: Flag hoisted at INFLIBNET Centre during Republic day celebration

15. Distinguished Visitors

The following dignitaries visited the INFLIBNET Centre, during the Period under report:

- Padmavibhushan Prof. Yash Pal, National Research Professor
- Prof. S. K. Khanna, Former Chairman GB, INFLIBNET Centre, Gandhinagar
- Dr. Jayanti Ravi (IAS), Commissioner, Higher Education, Government of Gujarat
- Prof. B. V. Doshi, Renown Architect, Vastu Shilpa
- Shri Promod Kumar, Former Director, INFLIBNET Centre
- Dr. C R Karisiddappa, Visiting Professor, Karnataka University, Dharwad
- Dr. R K Chadha, Additional Secretary, Lok Sabha, New Delhi
- Dr. T. S. Kumbar, Librarian, Indian Institute of Technology Gandhinagar, Gandhinagar
- Prof. Muttayya Kognuramath, Professor and Head, Central University of Gujarat, Gandhinagar
- Dr. TH Khomdon Singh, Librarian, Manipur University, Manipur
- Shri Aly Conteh, Digitization Programme Manager, British Library, London, UK
- Dr J K Vijayakumar, Senior S&T Specialists Librarian, King Abdullah University of Saudi Arabia, Saudi Arabia
- Shri Premchand, Secretary and Librarian, Indian Institute of Advanced Studies,, Shimla
- Dr Michael Witt, Assistant Proff & Library Science & Interdisiplinary Research Librarian, Purdue University, USA
- Dr Pawan Kumar Gupta, Former Prof & Head, University of Rajasthan, Jaipur
- Dr. M. S. Rana, University Librarian, Hemwati Nandan Bahuguna, Garhwal University, Srinagar,

-
- Dr. G. Naga Ratna Mani, Librarian, Gitam University, Visakhapatnam
 - Dr. M. K. Bhandi, University Librarian, Mangalore University, Karnataka
 - Shri Yogendra Singh, University Librarian, Indian Institute of Technology (IIT), Roorkee
 - Mr Walter Kny, Global Strategic Partnership Director, Marketing and Business Development, World E-Book Library, WPLA, Kosice, Slovakia
 - Dr H Anil Kumar, Librarian, Indian Institute of Management, Ahmedabad
 - Dr Ramesh Gaur, Librarian, Jawaharlal Nehru University, New Delhi
 - Prof S M Shafi, Head, Dept of Library & Information Science, University of Kashmir, Srinagar
 - Dr. Sumana Chakraborty Sarmah, Librarian I/C, Assam University, Silcher
 - Mr. Craig Stephens, Manager, North American Sales and Customer Support, Chemical Abstracts Service, Columbus
 - Ms. Christine Mc Cue, Vice President, Marketing, Chemical Abstracts Service, Columbus
 - Ms. Adriana Acosta Uria, Chief Marketing & Sales Officer, American Institute of Physics, NY
 - Mr. Simon Ross, Managing Director, Cambridge University Press, UK
 - Ms. Jessica K., Elsevier Science

16. 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>.

17. Financial Status

The Audited Annual Accounts of INFLIBNET Centre for the financial year 2012-2013 is given in the Appendix XIV.

**Building Committee
(As on 31st March 2013)****Prof. S K Khanna**

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

Shri Mukul Shah (Member)

Vice-Chancellor
Gujarat University
Navrangpura
Ahmedabad

Dr. Jagdish Arora (Member)

Director
INFLIBNET Centre
Infocity, Gandhinagar

Dr. R K Chadha (Member)

Additional Secretary
Lok Sabha
New Delhi

Shri Y P Pathak (Member)

Dy. Exe. Engineer – R&B
Sr. Civil /Executive Engineer
(Capital Project)
PWD, Gandhinagar

Prof. A N Rai (Member)

Director, NAAC
2/4, "Aragini Bhavana"
Dr. Rajkumar Road, P.O. Box 1075
Rajajinagar
Bengaluru

Prof. M N Patel (Member)

Principal
L D Engineering College
Ahmedabad

Mr. Rajeev Kathpalia (Member)

Vastu-Shilpa Consultants
"Sangath" Thaltej Road
Ahmedabad

Manoj Kumar K (Member)

Scientist-D (CS)
INFLIBNET Centre
Infocity, Gandhinagar

Shri Harish Chandra (Convener)

Admn. Officer (P&A)
INFLIBNET Centre
Infocity, Gandhinagar

**Governing Council
(As on 31st March 2013)****Ex. Officio Members**

Prof. Ved Prakash
President
INFLIBNET Society & 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
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
Aruna Asaf Ali Marg
New Delhi

Dr. K K Banerjee
Director
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 2013)**

Ex. Officio Members

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

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

Dr. Akhilesh Gupta
Secretary
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

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

Dr. Mukul Shah
Vice Chancellor
Gujarat University
Navrangpura
Ahmedabad

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

Dr. Kuncheria P Isaac
Member Secretary
All India Council for Technical Education (AICTE)
7th Floor, Chanderlok Building
Janpath, New Delhi

Prof. J P Gupta
Vice-Chancellor
Sharda University
Plot No. 32-34, Knowledge Park III
Greater Noida
(Computer Expert)

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

Shri R S Mani
Scientist-F (Operations and Routing Unit)
Dept. of Information Technology
Ministry of Communication and IT
National Informatics Centre
Lodhi Road, New Delhi
(Communication Expert)

Nominated Members
Prof. R K Kale
Vice-Chancellor
Central University of Gujarat
Sector-30, Gandhinagar

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

**Finance Committee
(As on 31st March 2013)**

Ex.Officio Members

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

Dr. Akhilesh Gupta
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. Jagdish Arora
Director
INFLIBNET Centre
Infocity, Gandhinagar

Shri Ashok Kumar Rai
Scientist-D (CS)
INFLIBNET Centre
Infocity, Gandhinagar

Shri Harish Chandra (Non-Member Secretary)
Admn. Officer (P&A)
INFLIBNET Centre
Infocity, Gandhinagar

Nominated Member

Prof. J P Gupta
Vice-Chancellor
Sharda University
Plot No. 32-34, Knowledge Park III
Greater Noida
(Computer Expert)

**Technical, Administrative and Supporting Staff
(As on 31st March 2013)**

Scientific & Technical Staff		
Sl. No.	Name of the employee	Designation
1.	Dr. Jagdish Arora	Director
2.	Shri Manoj Kumar K.	Scientist-D (CS)
3.	Shri Ashok Kumar Rai	Scientist-D (CS)
4.	Shri Yatrik R. Patel	Scientist-D (CS)
5.	Shri H. G. Hosamani	Scientist-C (LS)
6.	Shri Abhishek Kumar	Scientist-B (CS)
7.	Shri Swapnil P. Patel	Scientist-B (CS)
8.	Shri Divyakant Vaghela	Scientist-B (CS)
9.	Shri Gaurav Prakash	Scientist-B (CS)
10.	Mrs. Vaishali A. Shah	Scientist-B (LS)
11.	Ms. Kruti J. Trivedi	Scientist-B (LS)
12.	Shri Kannan P.	Scientist-B (LS)
13.	Shri Dinesh Ranjan Pradhan	S.T.O – I (LS)
14.	Mrs. Hema Cholin	STA-I (LS)
15.	Shri Saroja Kumar Panda	STA- I (LS)
16.	Shri Dharmeshkumar A. Shah	STA-I (CS)
17.	Shri Mohit Kumar	STA-I (CS)
18.	Shri Vijaykumar M Shrimali	STA-I (CS)
Administrative & Support Staff		
1.	Shri Harish Chandra	Administrative Officer (P&A)
2.	Shri B. M. Mali	Account Consultant
3.	Shri Sanjay R. Shah	Office Assistant-II
4.	Shri S. F. Vanikar	Office Assistant-II
5.	Mrs. S. M. Munshi	Personal Assistant
6.	Mrs. Yamini J. Dave	Clerk-cum- Typist
7.	Mrs. R. B. Pendharkar	Clerk-cum- Typist
8.	Shri Ankur B. Parikh	Clerk-cum- Typist
9.	Shri Shyam T. Yadav	Helper
10.	Shri Vinod B. Dantani	Helper
11.	Shri Bakul M. Parmar	Lab Attendant

Contractual Staff in Computer Science		
1.	Shri Ramiz Malik	Project Officer (CS)
2.	Shri Bhavesh Patel	Project Officer (CS) (till 22-07-2013)
3.	Mrs. Shweta Bhrahmbhatt	Project Officer (CS)
4.	Shri Swayamprakash Rajput	Project Associate (CS)
5.	Shri Jaynil Gandhi	Project Associate (CS)
6.	Shri Mayur Gohel	Project Associate (CS)
7.	Ms. Nabila Shaikh	SOUL Technical Assistant (CS)
Contractual Staff in Library Science		
1.	Mrs. Roma Shahdadpuri	Project Officer (LS)
2.	Mrs. Priti Sharma	Project Officer (LS)
3.	Mrs. Pallavi	Project Officer (LS)
4.	Shri Kamlesh Vegad	Project Officer (LS)
5.	Ms. Seema Chavda	Project Officer (LS)
6.	Ms. Archita Muchhadia	Project Associate (LS)
7.	Shri Kuldeep Matedia	Project Associate (LS)
8.	Ms. Sonal Vaghela	Project Assistant (LS)
9.	Ms Alpa K. Acharya	SOUL Technical Assistant (LS)

Appendix VI

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	Acharya N G Ranga Agricultural University, Nagarjunanagar, Andhra Pradesh		260
2	Acharya Nagarjuna University, Guntur, Andhra Pradesh	32794	1019
3	Adikavi nannya University, Rajahmundry, Andhra Pradesh		3
4	Ahmedabad University, Ahmedabad, Gujarat	22341	
5	Alagppa University, Karaikudi, Tamil Nadu	43635	172
6	Aligarh Muslim University, Aligarh, Uttar Pradesh	162157	9564
7	All India Institute of Medicine Sciences, New Delhi		208
8	Amrita Vishwa Vidyapeetham, Amritnagar, Coimbatore		2
9	Anand Agriculture University, Anand, Gujarat		1
10	Andhra Pradesh University of Law, Visakhapatnam, Andhra Pradesh	1604	
11	Andhra University, Vishakhapatnam, Andhra Pradesh	216049	6597
12	Anna University, Chennai, Tamil Nadu	98640	1468
13	Annamalai University, Annamalai Nagar, Tamil Nadu	473810	2238
14	Assam Agricultural University, Jorhat, Assam		84
15	Assam University, Silchar, Assam	32668	134
16	Avinashilingam University for Women, Coimbatore, Tamil Nadu		118
17	Avinashlingam Institute for Home Science, Coimbatore, Tamil Nadu	82452	
18	Awadhesh Pratap Singh Vishwavidyalaya, Rewa, Madhya Pradesh		1048
19	B L D E University, Bijapur, Karnataka	12301	
20	Baba Ghulam Shah Badshah Univ, Rajouri, Jammu & Kashmir	6567	
21	Babasaheb Bhimrao Ambedkar Bihar University, Muzaffarpur, Bihar		874
22	Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh	15850	19
23	Banaras Hindu University, Varanasi, Uttar Pradesh	445000	14772
24	Banasthali University, Banasthali, Rajasthan	75620	109
25	Bangalore University, Bangalore, Karnatak	130000	1722
26	Barkatullah Vishwavidyalaya, Bhopal, MP		1063
27	Bengal Engineering And Science University, Howarha, West Bengal		5

28	Berhampur University, Berhampur, Orrisa		393
29	Bharathiar University, Coimbatore, Tamil Nadu	87115	69
30	Bharathidasan University, Tiruchirapalli, Tamil Nadu	52774	125
31	Bharati Vidyapeeth, Pune, Maharashtra	20215	41
32	Bhavnagar University, Bhavnagar, Gujarat	44385	686
33	Bhupendra Narayan Mandal University, Madhepur, Bihar		476
34	Bidhan Chandra Krishi Viswavidyalaya, Nadia, West Bengal		406
35	Birla Institute of Technology & Science, Pilani, Rajashthan	72015	271
36	Birla Institute of Technology Mesra, Ranchi, Jharkhand		5
37	Birsa Agricultural University, Ranchi, Jharkhand		98
38	Bundelkhand University, Jhansi, Uttar Pradesh		298
39	Burdwan University, Burdwan, West Bengal	45000	
40	C S M Medical University, Lucknow, Uttar Pradesh	366	
41	Central Drugs Research Institute, Lucknow, Uttar Pradesh		45
42	Central Inst.of English & Foreign Lang. , Hyderabad, Andhra Pradesh	50000	
43	Central Institute of Fisheries Education, Mumbai, Maharashtra		2
44	Central University of Tibetan Studies, Varanasi, Uttar Pradesh	25145	
45	Chandra Shekhar Azad University of Agriculture & Technology, Kanpur, Uttar Pradesh		370
46	Chatrapati Shahu Ji Maharaj University, Kanpur, Uttar Pradesh	5000	
47	Chaudhary Charan Singh Haryana Agricultural University, Hissar, Haryana		1049
48	Chaudhary Charan Singh University, Meerut, Uttar Pradesh	70387	1930
49	Chaudhary Devi Lal University, Sirsa, Haryana		12
50	Chaudhary Sarwan Kumar Himachal Pradesh Krishi Vishwavidyalaya, Palampur, Himachal Pradesh		501
51	Chhatrpati Shahu Ji Maharaj Kanpur University, Kanpur, Uttar Pradesh		2072
52	CMJ University, Shillong, Meghalaya		2
53	Cochin University of Science & Technology, Kochi, Kerala	72693	1138
54	Dakshina Bharat Hindi Prachar Sabha, Chennai, Tamil Nadu		23
55	Dayalbagh Educational Institute, Agra, Uttar Pradesh		290
56	Deccan College Post Graduate & Research Institute, Pune, Maharashtra	140000	102
57	Deenbandhu Chhotu Ram University of Science & Technology, Murthal (Haryana)	24211	
58	Deendayal Upadhyay Gorakhpur University, Gorakhpur, Uttar Pradesh	15992	1632
59	Defence Science Centre, Delhi		13

60	Dev Sanskriti Vishwavidyalaya, Dehradun, Uttaranchal		85
61	Devi Ahilya Vishwavidyalaya, Indore, Madhya Pradesh	18000	2760
62	Dharmsinh Desai University, Nadiad, Gujarat	16063	
63	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, Gujarat		4
64	Dibrugarh University, Dibrugarh, Assam	57466	608
65	Doon University, Dehradun, Uttarakhand	3707	
66	Dr. B R Ambedkar open Univ, Hyderabad, Andhra Pradesh	89402	1
67	Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab		1
68	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra	36015	2516
69	Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Maharashtra		24
70	Dr. Bhim Rao Ambedkar University, Agra, Uttar Pradesh	133000	3676
71	Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh		2551
72	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra		195
73	Dr. Ram Manohar Lohia Avadh University, Faizabad, Uttar Pradesh		366
74	Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Solan, Himachal Pradesh		451
75	Dravidian University, Kuppam, Andhra Pradesh	32758	1
76	Eternal University, Baru Sahib, Sirmour, Himachal Pradesh		7
77	Fakir Mohan University, Balasore, Orissa		21
78	Forest Research Institute, Dehradun, Uttaranchal		316
79	Gandhigram Rural Institute, Gandhigram, Tamil Nadu	166196	250
80	Ganpat University, Mehsana, Gujarat		1
81	Gauhati University, Guwahati, Assam	10000	2549
82	GLA University, Mathura, Uttar Pradesh	11568	
83	Goa University, Panaji, Goa	109886	132
84	Gokhale Institute of Politics and Economics, Pune, Maharashtra	246000	6
85	Govind Ballabh Pant University of Agriculture and Technology, Pant Nagar, Uttaranchal		621
86	Gujarat Ayurved University, Jamnagar, Gujarat		199
87	Gujarat Forensic Sciences University, Gandhinagar, Gujarat		2
88	Gujarat University, Ahmedabad, Gujarat	250000	1533
89	Gujarat Vidyapith, Ahmedabad, Gujarat	441872	52
90	Gulbarga University, Gulbarga, Karnataka	84964	401

91	Guru Angad Dev Veterinary and Animal Sciences University, Hissar, Haryana		11
92	Guru Ghasidas University, Bilaspur, Chattisgarh	46326	1892
93	Guru Gobind Singh Indraprasth University, Delhi	17374	
94	Guru Jambheshwar University of Science & Technology, Hissar, Haryana	17507	253
95	Guru Nanak Dev University, Amritsar, Punjab	122302	608
96	Gurukula Kangri Vishwavidyalaya, Haridwar, Uttaranchal	90372	127
97	Hemchandracharya North Gujarat University, Patan, Gujarat	55201	1179
98	Hemwati Nandan Bahuguna Garhwal University, Garhwal, Uttaranchal		457
99	Himachal Pradesh University, Shimla, Himachal Pradesh	46582	1226
100	Homi Bhabha National Institute, Mumbai		66
101	IIT Bhubneshwar, Bhubneshwar, Orissa	1028	
102	Indian Agricultural Research Institute, New Delhi		1997
103	Indian Institute of Advanced Study, Shimla, Himachal Pradesh	69693	
104	Indian Institute of Management, Bangalore, Karnataka	117518	
105	Indian Institute of Science Bangalore, Bengaluru, Karnataka		2174
106	Indian Institute of Technology Bombay, Mumbai, Maharashtra		1161
107	Indian Institute of Technology Delhi, New Delhi		3104
108	Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh		1057
109	Indian Institute of Technology Kharagpur, Kharagpur, West Bengal		1448
110	Indian Institute of Technology Madras, Chennai, Tamil Nadu		1693
111	Indian Institute of Technology Roorkee, Roorkee, Uttar Pradesh	70000	2441
112	Indian Institute of Technology, Hyderabad, Andhra Pradesh	8480	
113	Indian Institute of Technology, Mandi, Himachal Pradesh	8154	
114	Indian Institute of Technology, Ropar, Punjab	4274	
115	Indian Institute of Tropical Meteorology, Pune, Maharashtra		2
116	Indian School of Mines, Dhanbad, Jharkhand		430
117	Indian Statistical Institute, Kolkata, West Bengal		125
118	Indian Veterinary Research Institute, Izatnagar, Uttar Pradesh		111
119	Indira Gandhi National Open University, New Delhi		4
120	Indira Kala Sangeet Vishwavidyalaya, Khairagarh, Chattisgarh	13697	136
121	Industrial Toxicology Research Centre, Lucknow, Uttar Pradesh		9
122	Institute for Social and Economics Change, Bangalore, Karnataka		40
123	International Institute for Population Sciences, Govandi, Mumbai, Maharashtra	51139	123

124	Jadavpur University, Kolkatta, West Bengal	223670	1307
125	Jagadguru Ramanandacharya Rajasathan Sanskri University, Jaipur, Rajasthan		12
126	Jai Narain Vyas University, Jodhpur, Rajasthan	4823	1973
127	Jai Prakash Vishwavidyalaya, Chapra, Bihar		19
128	Jain Vishva Bharati Institute, Ladnun, Rajasthan	4715	119
129	Jamia Hamdard University, New Delhi	37487	322
130	Jamia Milia Islamia, New Delhi	64177	1058
131	Jawaharlal Nehru Institute of Postgraduate Medical Education and Research, Dhanvantri Nagar, Puducherry		1
132	Jawaharlal Nehru Krishi Vishwavidyalaya, Jabalpur, Madhya Pradesh		206
133	Jawaharlal Nehru Technological University, Hyderabad, Andhra Pradesh		454
134	Jawaharlal Nehru University, New Delhi	311067	4923
135	Jaypee University of Information Technology, Solan, Himachal Pradesh		2
136	Jiwaji University, Gwalior, Madhya Pradesh	25000	1443
137	Kakatiya University, Warangal, Andhra Pradesh	56837	2199
138	Kameshwar Singh Darbhanga Sanskrit University, Darbhanga, Bihar	1351	256
139	Kannada University, Hampi, Karnataka	34877	185
140	Kannur University, Kannur, Kerala	28503	206
141	Krantiguru Shyamji Krushn Verma Kachchh University, Bhuj, Gujarat		13
142	Karnatak State Women University, Bijapur, Karnataka	60165	6
143	Karnatak University, Dharwad, Karnataka	145111	3081
144	Karnataka State Open University, Mysore, Karnataka		49
145	Kavi Kulaguru Kalidas Sanskrit Vishwavidyalaya, Ramtek, Nagpur, Maharashtra		2
146	Kerala Agricultural University, Ernakulam, Kerala		158
147	KLE University, Belgam, Karnataka		6
148	Krishna Kanta Handiqui State Open University, Gauhati, Assam	9073	
149	Kumaun University, Nainital, Uttaranchal	5000	970
150	Kurukshetra University, Kurukshetra, Hariyana	200000	4350
151	Kuvempu University, Kuvempu, Karnataka	46693	1177
152	Lakshmibai National Institute of Physical Education University, Gwalior, Madhya Pradesh		3
153	Lalit Narayan Mithila Vishvidyalaya, Darbhanga, Bihar		181
154	M J P Rohilkhand University, Bareilly, Uttar Pradesh		2850

155	Madhya Pradesh Bhoj University, Bhopal, Madhya Pradesh		61
156	Madurai Kamaraj University, Madurai, Tamil Nadu	194525	952
157	Magadh University, Bodhgaya, Bihar		1115
158	Maharaja Sayajirao University of Baroda, Vadodara, Gujarat	429722	2901
159	Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan		131
160	Maharashtra Animal & Fishery Sciences University, Mumbai, Maharashtra		3
161	Maharishi Mahesh Yogi Vedic Vishwavidyalaya, Noida, Uttar Pradesh		2
162	Maharshi Dayanand Saraswati University, Ajmer, Rajasthan	27095	47
163	Maharshi Dayanand University, Rohtak, Haryana		2195
164	Maharshi Markandeshwar University, Mullana-Ambala, Haryana		13
165	Mahatma Gandhi Antarrashtriya Hindia Vishwavidyalaya, Wardha, Maharashtra		8
166	Mahatma Gandhi Chitrakoot Gramoday Vishwavidyalaya, Chitrakoot, Madhya Pradesh		7
167	Mahatma Gandhi Gramoday Vishwavidyalaya, Chitrakoot, Madhya Pradesh	5000	
168	Mahatma Gandhi Kashi Vidyapeeth, Varanasi, Uttar Pradesh		142
169	Mahatma Gandhi University, Kottayam, Kerala	70439	516
170	Mahatma Phule Krishi Vidyapeeth, Rahuri, Maharashtra		450
171	Makhanlal Chaturvedi Rashtriya Patrakarita Vishwavidyalaya, Bhopal, Madhya Pradesh		23
172	Mangalore University, Mangalore, Karnataka	35649	588
173	Manipal Academy of Higher Education, Manipal, Karnataka		8
174	Manipal University, Manipal, Karnataka		12
175	Manipur University, Imphal, Manipur	71547	1393
176	Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu	42344	60
177	Marathwada Krishi Vidyapeeth, Parbhani, Maharashtra		534
178	MATS University, Raipur, Chhattisgarh		1
179	Maulana Azad National Institute of Technology, Hyderabad, Andhra Pradesh		67
180	Maulana Azad National Urdu University, Hyderabad, Andhra Pradesh	9261	
181	Mizoram University, Aizwal, Mizoram	19585	127
182	Mohanlal Sukhadia University, Udaipur, Rajasthan	107621	1021
183	Mother Teresa Women's University, Kodaikanal, Kerala	34113	7
184	Nagaland University, Kohima, Nagaland	15556	56

185	NALSAR Univ of Law, Hyderabad, Andhra Pradesh	14415	
186	Narendra Dev University of Agriculture and Technology, Faizabad, Uttar Pradesh		118
187	National Botanical Research Institute, Lucknow, Uttar Pradesh		3
188	National Brain Research Centre, Manesar, Gurgaon, Haryana		9
189	National Chemical Laboratory, Pune, Maharashtra		16
190	National Dairy Research Institute, Karnal, Haryana		169
191	National Institute of Mental Health and Neuro Sciences, Bengaluru, Karnataka		301
192	National Institute of Pharmaceutical Education and Research, Hyderabad, Andhra Pradesh		152
193	National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh	23900	
194	National Institute of Technology Hamirpur, Hamirpur, Himachal Pradesh		9
195	National Institute of Technology Karnataka		11
196	National Institute of Technology Rourkela, Rourkela, Jharkhand		3
197	National Institute of Technology Silchar, Silchar, Assam		9
198	National Institute of Technology Warangal, Warangal, Andhra Pradesh		5
199	National Law Institute Univ, Bhopal, Madhya Pradesh	5947	
200	National Sugar Institute, Kanpur, Uttar pradehs		3
201	National Univ of Advanced Legal Studies, Kochi, Kerala	5749	
202	Netaji Subhas Open University, Kolkata, West Bengal		1
203	Nirma University, Ahmedabad, Gujarat		1
204	North Eastern Hill University, Shilong, Meghalaya	84523	
205	North Eastern Regional Institute of Science & Technology, Itanagar, Arunachal Pradesh		6
206	North Maharashtra University, Jalgaon, Maharashtra	35000	348
207	North Orissa University, Mayurbhanj, Orissa		5
208	North-Eastern Hill University, Shilong, Meghalaya		1228
209	Orissa University of Agricultural and Technology, Bhubaneswar, Orissa		105
210	Osmania University, Hyderabad, Andhra Pradesh	102741	7135
211	Pandit Ravishankar Shukla University, Raipur, Chhattisgarh	156564	1175
212	Pandit Sundarlal Sharma Open University, Bilaspur, Chhattisgarh		4
213	Panjab University, Punjab	205168	3757
214	Patna University, Patna, Bihar		727
215	Periyar University, Salem, Tamil Nadu	25606	

216	Pondicherry University, Pondicherry	37174	601
217	Postgraduate Institute of Medical Education & Research, Chandigarh		332
218	Potti Sreeramulu Telugu University, Hyderabad	25936	119
219	Pravara Institute of Medical Sciences, Loni, Maharashtra	20529	
220	PRIST Univerisity, Thanjavur, Tamil Nadu		5
221	Punjab Agricultural University, Ludhiana, Punjab		1768
222	Punjabi University, Patiala, Punjab	34254	1585
223	Rabindra Bharati University, Howarha, West Bengal	16924	425
224	Rajasthan Agricultural University, Bikaner, Rajasthan		166
225	Rajendra Agricultural University, Samastipur, Bihar		160
226	Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal, Madhya Pradesh		56
227	Rajiv Gandhi University, Doimukh, Arunachal Pradesh	25000	84
228	Raman Research Institute, Bengaluru, Karnataka		5
229	Ranchi University, Ranchi, Jharkhand	60554	336
230	Rani Durgawati Vishwavidyalaya, Jabalpur, Madhya Pradesh	20000	1787
231	Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, Maharashtra	202803	10381
232	Rashtriya Sanskrit Sansthan, Janakpuri, New Delhi		40
233	Rashtriya Sanskrit Vidyapeetha, Tirupati, Andhra Pradesh	16690	134
234	Sam Higginbotom Institute of Agriculture, Technology & Sciences, Allahabad, Uttar Pradesh		283
235	Sambalpur University, Sambalpur, Orissa	32993	1133
236	Sampurnanand Sanskrit Vishvavidyalaya, Varanasi, Uttar Pradesh	10000	80
237	Sant Gadge Baba Amravati University, Amravati, Maharashtra	71862	133
238	Sant Longowal Institute of Engineering and Technology, Longowal, Punjab		5
239	Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat	224673	940
240	Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat		31
241	Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut, UP		1
242	Sardarkrushinagar Dantiwada Agricultural University, Palanpur, Gujarat		152
243	Sathyabama University, Chennai, Tamil Nadu		2
244	Saurashtra University, Rajkot, Gujarat	20965	1806
245	School of Planning and Architecture, New Delhi		3

246	Shanmugha Arts, Science, Technology & Research Academy University (SASTRA University), Thanjavur, Tamil Nadu		1
247	Sher-e-Kashmir University of Agricultural Sciences and Technology Jammu, Jammu, Jammu & Kashmir		11
248	Sher-e-Kashmir University of Agricultural Sciences and Technology Kashmir, Sri Nagar, Jammu & Kashmir		37
249	Sher-i-Kashmir Institute of Medical Science, Srinagar, Jammu & Kashmir		1
250	Shivaji University, Kolhapur, Maharashtra	60506	1371
251	Shobhit University, Meerut, Uttar Pradesh		25
252	Shreemati Nathibai Damodar Thackersey Women's University, Mumbai, Maharashtra		665
253	Shri Jagannath Sanskrit Vishwavidyalaya, Puri, Orissa		62
254	Shri Jagdishprasad Jhabarmal Tibarewala University, Vidyanagari, Chudela, Rajasthan		7
255	Shri Lal Bhadur Shastri Rastriya Sanskrit Vidyapeeth, New Delhi		1
256	Shri Mata Vaishno Devi University, Kakryal, Katra, Jammu & Kashmir	6983	7
257	Sido Kanhu Murmu University, Dhumka, Jharkhand		3
258	Sikkim-Manipal University of Health, Medical & Technological Sciences, Gangtok, Sikkim		5
259	Siksha O Anusandhan University, Bhubneswar, Orissa		10
260	SNDT Women's University, Mumbai, Maharashtra	70577	
261	Solapur University, Solapur, Maharashtra		60
262	Sree Chitra Tirunal Institute for Medical Sciences & Technology, Travancore, Kerala	24110	7
263	Sree Sankaracharya University of Sanskrit, Kalady, Kerala	42822	129
264	Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kanchipuram, Tamil Nadu		14
265	Sri Krishnadevaraya University, Anantapura, Andhra Pradesh	35167	343
266	Sri Padmavati Mahila Vishwavidyalaya, Tirupati, Andhra Pradesh	37088	30
267	Sri Ramachandra University, Chennai, Tamil Nadu		58
268	Sri Sathya Sai Institute of Higher Learning, Anantpur, Andhra Pradesh	28937	50
269	Sri Venkateswara Institute of Medical Sciences, Tirupati, Andhra Pradesh		2
270	Sri Venkateswara University, Tirupati, Andhra Pradesh	88864	2615
271	Sumandeep Vidyapeeth, Vadodara, Gujarat		3

272	SVYASA Yoga University, Bangalore, Karnataka	7543	
273	Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra	44651	468
274	Swami Vivekananda Yoga Anusandhana Samsthana (SVYASA) University, Bengaluru, Karnataka		22
275	Tamil Nadu Dr. Ambedkar Law University, Chennai, Tamil Nadu		14
276	Tamil Nadu Dr. M.G.R.Medical University, Chennai, Tamil Nadu		3
277	Tamil Nadu Veterinary and Animal Sciences University, Chennai, Tamil Nadu		188
278	Tamil University, Thanjavur, Tamil Nadu	7222	
279	Tamilnadu Agricultural University, Coimbatore, Tamil Nadu		404
280	Tata Institute of Fundamental Research, Mumbai, Maharashtra		20
281	Tata Institute of Social Sciences, Govandi, Mumbai, Maharashtra	56423	85
282	Tezpur University, Tezpur, Assam	25888	153
283	Thapar Institute of engineering and Technology, Patiyala, Punjab	16806	
284	Thapar University, Patiala, Punjab		160
285	The English and Foreign Languages University, Hyderabad, Andhra Pradesh		104
286	The WB National University of Juridical Sciences, Kolkata, West Bengal	11027	
287	Tilak Maharashtra Vidyapeeth, Pune, Maharashtra	63777	23
288	Tilkamanjhi Bhagalpur University, Bhagalpur, Bihar	3147	418
289	Tripura University, Suryamaninagar, Tripura		92
290	University of Agricultural Sciences Bengaluru, Karnataka		345
291	University of Agricultural Sciences, Dharwad, Karnataka		88
292	University of Allahabad, Allahabad, Uttar Pradesh	5300	1956
293	University of Bundelkhand, Jhansi, Uttar Pradesh	30110	
294	University of Burdwan, Burdwan, West Bengal		3670
295	University of Calcutta, Kolkata, West Bengal	15690	9237
296	University of Calicut, Calicut, Kerala	69847	1614
297	University of Delhi, New Delhi	688174	17200
298	University of Hyderabad, Hyderabad, Andhra Pradesh	376217	500
299	University of Jammu, Jammu & Kashmir	110643	4902
300	University of Kalyani, West Bengal	4323	344
301	University of Kashmir, Srinagar, Jammu & Kashmir	310853	412
302	University of Kerala, Thiruvananthapuram, Kerala	131249	1535

303	University of Lucknow, Lucknow, Uttar Pradesh		2707
304	University of Madras, Chennai, Tamil Nadu	50000	3950
305	University of Mumbai, Mumbai, Maharashtra	827773	6007
306	University of Mysore, Mysore, Karnataka	129945	1044
307	University of North Bengal, Siligudi, West Bengal	178357	1189
308	University of Pune, Pune, Maharashtra	35592	3144
309	University of Rajasthan, Jaipur, Rajasthan		7162
310	Utkal University of Culture, Bhubaneswar, Orissa		1
311	Utkal University, Bhubneswar, Orissa		1858
312	Uttar Pradesh Technical University, Lucknow, Uttar Pradesh		37
313	Vardhaman Mahaveer Open University, Kota, Rajasthan		42
314	Veer Bahadur Singh Purvanchal University, Jaunpur, Uttar Pradesh		67
315	Veer Kunwar Singh University, Ara, Bihar		67
316	Veer Narmad South Gujarat University, Surat, Gujarat	200567	294
317	Vellore Institute of Technology, Vellore, Tamil Nadu		3
318	Vidyasagar University, Mednapur, West Bengal	41320	203
319	Vikram University, Ujjain, Madhya Pradesh		2051
320	Vinoba Bhave University, Hazaribag, Jharkhand		356
321	Visva Bharati University, Shanti Niketan, West Bengal	24336	524
322	Visvesvaraya National Institute of Technology, Nagpur, Maharashtra		65
323	West Bengal University of Technology, Kolkata, West Bengal	15007	
324	Yashwantrao Chavan Maharashtra Open University, Nasik, Maharashtra	36253	84
	Total Records	1,27,37,400	2,52,885

State-Wise List of the SOUL Installations

Sl. No.	Name of the State	Installation	1 st April, 12 to 31 st March, 13	Total
1.	Andhra Pradesh	220	10	230
2.	Assam	24	4	28
3.	Bihar	12	2	14
4.	Chhattisgarh	23	2	25
5.	Daman	2	0	2
6.	Goa	3	0	3
7.	Gujarat	738	42	780
8.	Haryana	45	9	54
9.	Himachal Pradesh	47	4	51
10.	Jammu & Kashmir	49	4	53
11.	Jharkhand	5	0	5
12.	Karnataka	30	0	30
13.	Kerala	119	10	129
14.	Madhya Pradesh	186	23	209
15.	Maharashtra	300	36	336
16.	Meghalaya	2	0	2
17.	Mizoram	9	6	15
18.	Nepal	1	1	2
19.	New Delhi	36	0	36
20.	North Eastern States	276	0	276
21.	Orissa	8	0	8
22.	Pondicherry	3	1	4
23.	Punjab	117	4	121
24.	Rajasthan	50	4	54
25.	Tamil Nadu	28	2	30
26.	Uttar Pradesh	68	11	79
27.	Uttaranchal	18	0	18
26.	West Bengal	103	9	112
	Total	2,522	184	2,706

Appendix-VIII

List of Universities who signed MoU for Shodhganga

Sl. No.	University Name	State	Date
1	Sambalpur University, Jyoti Vihar	Orissa	6th March 2012 (Signed in March received in April)
2	Dayalbag Educational Institute, Agra	Uttar Pradesh	16th March 2012 (Signed in March received in April)
3	Sri Ramachandra University, Porur	Tamil Nadu	26th March 2012 (Signed in March received in April)
4	Mohanlal Sukhadia University, Udaipur	Rajasthan	10th April 2012
5	Narsee Monjee Institute of Management Studies, Mumbai	Maharashtra	21st April 2012
6	Central University of Punjab, Bathinda	Punjab	19th May, 2012
7	Bharathiar University, Coimbatore	Tamil Nadu	21st May, 2012
8	Lovely Professional University, Jalandhar	Punjab	1st June, 2012
9	Gujarat University, Ahmedabad	Gujarat	4th June 2012
10	University of Mysore, Mysore	Karnataka	8th June 2012
11	Himachal Pradesh University, Shimla	Himachal Pradesh	9th July 2012
12	Avinashilingm Institute for home science and higher education for women, Coimbatore	Tamil Nadu	17th July 2012
13	University of Kerala, Thiruvananthapuram	Kerala	20th July 2012
14	Central University of Himachal Pradesh, Dharamshala	Himachal Pradesh	2nd August 2012
15	Goa University, Goa	Goa	13th August 2012
16	M.S.University of Baroda, Vadodara	Gujarat	22nd August 2012
17	Vel Tech Dr.RR & Dr.SR Technical University, Avadi	Tamil Nadu	23rd August 2012
18	S.N.D.T Women's University, Mumbai	Maharashtra	28th August 2012
19	Shri Mata Vaishno Devi University(SMVDU), Katra	Jammu and Kashmir	4th September 2012
20	Suresh Gyan Vihar University, Jaipur	Rajasthan	19th September 2012
21	Dr. Balasaheb Sawant Konkan Krishi Vidypeeth, Dapoli	Maharashtra	21st September 2012
22	Jiwaji University, Gwalior	Madhya Pradesh	3rd October 2012
23	Sant Gadge Baba Amravati University, Amravati	Maharashtra	9th October 2012

24	Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha	Maharashtra	9th October 2012
25	Aligarh Muslim University, Aligarh	Uttar Pradesh	9th October 2012
26	CSK Himachal Pradesh Agricultural University, Palampur	Himachal Pradesh	10th October 2012
27	Karnataka Sanskrit University, Chamarajpet	Karnataka	10th October 2012
28	Karnataka State Women's University, Bijapur	Karnataka	10th October 2012
29	Vels University, Chennai	Tamil Nadu	10th October 2012
30	Jawaharlal Nehru Technological University, Kakinada	Andhra Pradesh	16th October 2012
31	Shiv Nadar University, Gautam Budh Nagar	Uttar Pradesh	19th October 2012
32	Acharya Nagarjuna University, Guntur	Andhra Pradesh	19th October 2012
33	Chennai Mathematical Institute, Siruseri	Tamil Nadu	19th October 2012
34	Jamia Hamdard University, Hamdard Nagar	New Delhi	25th October 2012
35	Mewar University, Chittorgarh	Rajasthan	25th October 2012
36	Ahmedabad University, Ahmedabad	Gujarat	26th October 2012
37	Jain University, Bangalore	Karnataka	1st November 2012
38	JK Lakshmi Patil University, Jaipur	Rajasthan	5th November 2012
39	Sree Sankaracharya University of Sanskrit, Kalady	Kerala	16th November 2012
40	TERI University, New Delhi	New Delhi	20th November 2012
41	Madurai Kamaraj University, Madurai	Tamil Nadu	22nd November 2012
42	The University of Burdwan, Bardhaman	West Bengal	23rd November 2012
43	Jayoti Vidyapeeth Women's University, Jaipur	Rajasthan	6th December 2012
44	Graphic Era University, Dehradun	Uttarakhand	18th December 2012
45	Jaypee University of Engineering & Technology, Guna	Madhya Pradesh	19th December 2012
46	Mangalayatan University, Aligarh	Uttar Pradesh	19th December 2012
47	Sardar Patel University, Vallabh Vidyanagar	Gujarat	27th December 2012
48	Gujarat Vidyapith, Ahmedabad	Gujarat	1st January 2013
49	Kushabhau Thakre Patrakarita Avam Jansanchar Vishwavidyalaya, Raipur	Chhattisgarh	2nd January 2013
50	Amity University, Noida	Uttar Pradesh	2nd January 2013
51	Rajendra Agricultural University, Pusa Samastipur	Bihar	3rd January 2013

52	Delhi Technological University, New Delhi	New Delhi	8th January 2013
53	Tripura University, Agartala	Tripura	21st January 2013
54	Krishna Institute of Medical Sciences Deemed University, Karad	Maharashtra	24th January 2013
55	Assam University, Silchar	Assam	31st January 2013
56	IASE Deemed University, Churu	Rajasthan	11th February 2013
57	Mangalore University, Mangalagangothri	Karnataka	21st March 2013
58	Jawaharlal Nehru Technological University, Anantapur	Andhra Pradesh	25th March 2013
59	BPS Mahila Vishwavidyalaya, Khanpur Kalan	Haryana	28th March 2013
60	Maharaja Krishnakumarsinhji Bhavnagar University, Bhavnagar	Gujarat	28th March 2013

Universities contributed Full-text Theses into Shodhganga but not signed MoU

Sl. No.	University Name
1	Alagappa University, Karikudi
2	Banaras Hindu University
3	Bharath University
4	Dravidian University
5	D Y Patil University
6	Forest Research Institute University
7	Gujarat Ayurveda University
8	Homi Bhabha National Institute
9	Indian Institute of Foreign Trade
10	Indian School of Mines
11	International Institute of Information Technology Bangalore
12	Jadavpur University
13	Jai Narain Vyas University
14	JSS University
15	Kadi Sarva Vishwavidyalaya
16	Karnataka Veterinary, Animal and Fisheries Sciences University
17	Karunya University
18	KLE University
19	Kurukshetra University
20	Lakshmibai National University of Physical Education
21	Madhya Pradesh Bhoj (Open) University
22	Magadh University
23	Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya
24	MATS University
25	Mizoram University
26	Netaji Subhas Open University
27	Nirma University
28	Panjab University
29	Punjabi University
30	Sam Higginbottom Institute of Agriculture, Technology and Sciences
31	Sant Gadge Baba Amravati University, Amravati
32	Saurashtra University
33	Saveetha University
34	Shobhit University
35	Siksha 'O' Anusandhan University
36	Sri Padmavathi Womens University

37	SRM University
38	Swami Ramanand Teerth Marathwada University
39	Swami Vivekananda Yoga Anusandhana Sansthana
40	Tamilnadu Physical Education and Sports University
41	University of Agricultural Sciences, Bangalore
42	University of Calcutta
43	University of Delhi
44	University of Kalyani
45	University of Madras
46	U P Rajarshi Tondon Open University
47	Veer Narmad South Gujarat University

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Prof. Ashok Raina**Professor Theoretical Physics Group**

Tata Institute of Fundamental Research
Mumbai

**Members of the Negotiation Committee of the NSC
(As on 31st March 2013)**

Dr. Jagdish Arora (Chairman)

Director
INFLIBNET Centre
Infocity, Gandhinagar

Prof. J P Gupta

Jaypee Institute of Information Technology
University
Noida

Prof. A Balasubramanian

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Pondicherry University
Puducherry

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Dean, Department of Physics
Assam University
Silchar

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Lok Sabha
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Shri Ashok Kumar Rai (Convener)

Scientist D (CS)
INFLIBNET Centre
Infocity, Gandhinagar

Shri Harish Chandra

Admin Officer (P&A)
INFLIBNET Centre
Infocity, Gandhinagar

Smt. Sahana Munshi

In-charge, Section Officer (S&P)
INFLIBNET Centre
Infocity, Gandhinagar

Universities and IUCs that are provided Access to E-resources under UGC-INFONET Digital Library Consortium

Sl. No.	University Name	No. of resources
	Phase I	
1	Aligarh Muslim University, Aligarh, Uttar Pradesh	25
2	Andhra University, Visakhapatnam, Andhra Pradesh	26
3	Anna University, Chennai, Tamil Nadu	23
4	Avinashilingam University For women, Coimbatore, Tamil Nadu	21
5	Banaras Hindu University, Varanasi, Uttar Pradesh	25
6	Bangalore University, Bangalore, Karnataka	27
7	Birla Institute of Technology and Science, Pilani, Rajasthan	24
8	Calcutta University, Calcutta, West Bengal	26
9	Cochin University of Science and Technology, Cochin, Kerala	24
10	Devi Ahilya University, Indore, Madhya Pradesh	22
11	Gauhati University, Gauhati, Assam	25
12	Goa University, Goa, Goa	25
13	Guru Nanak Dev University, Amritsar, Punjab	25
14	Jadavpur University, kolkata, West Bengal	26
15	Jamia Hamdard University, New Delhi, Delhi	20
16	Jamia Millia Islamia, New Delhi, Delhi	24
17	Jammu University, Jammu Tawi, Jammu and Kashmir	23
18	Jawaharlal Nehru University, New Delhi, Delhi	25
19	Karnatak University, Dharwad, Karnataka	24
20	Kurukshetra University, Kurukshetra, Haryana	25
21	Madurai Kamraj Univeristy, Madurai, Tamil Nadu	26
22	Mangalore University, Mangalore, Karnataka	25
23	Manipur University, Imphal, Manipur	24
24	Mahatma Gandhi University, Kottayam, Kerala	25
25	Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, Maharashtra	23
26	North Eastern Hill University, Shillong, Meghalaya	25
27	Osmania University, Hyderabad, Andhra Pradesh	25
28	Pondichery University, Pondicherry, Pondicherry	25
29	Pt. Ravishankar Shukla University, Raipur, Chhatisgarh	26
30	Panjab University, Chandigarh, Chandigarh	25
31	Punjabi University, Patiala, Punjab	25

32	Sardar Patel University, Vallabh Vidyanagar, Gujarat	24
33	Shivaji University, Kolhapur, Maharashtra	26
34	Tezpur University, Tezpur, Assam	25
35	Thapar University, Patiala, Punjab	22
36	The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat	25
37	University of Allahabad, Allahabad, Uttar Pradesh	24
38	University of Calicut, Kozhikode, Kerala	23
39	University of Delhi, Delhi, Delhi	26
40	University of Hyderabad, Hyderabad, Andhra Pradesh	24
41	University of Kashmir, Srinagar, Jammu and Kashmir	24
42	University of Kerala, Thiruvananthapuram, Kerala	24
43	University of Madras, Chennai, Tamil Nadu	26
44	University of Mumbai, Mumbai, Maharashtra	24
45	University of Mysore, Mysore, Karnataka	25
46	University of North Bengal, Darjeeling, West Bengal	24
47	University of Pune, Pune, Maharashtra	25
48	University of Rajasthan, Jaipur, Rajasthan	25
49	Jiwaji University Gwalior, Gwalior, Madhya Pradesh	22
50	Kuvempu University, Shankaraghatta, Karnataka	23
	Phase II	
51	Sant Gadge Baba Amravati University, Amravati, Maharashtra	17
52	Rajiv Gandhi University, Itanagar, Arunachal Pradesh	20
53	Annamalai University, Annamalainagar, Tamil Nadu	19
54	Assam University, Silchar, Assam	24
55	Awadhesh Pratap Singh University, Rewa, Madhya Pradesh	10
56	Banasthali University, Banasthali, Rajasthan	18
57	Berhampur University, Berhampur, Orissa	13
58	Bharathiar University, Coimbatore, Tamil Nadu	18
59	Bharathidasan University, Tiruchirapall, Tamil Nadu	18
60	Bhavnagar University, Bhavnagar, Gujarat	18
61	Birla Institute of Technology, Ranchi, Jharkhand	18
62	Bundelkhand University, Jhansi, Uttar Pradesh	18
63	Chaudhary Charan Singh University, Meerut, Uttar Pradesh	16
64	Chhatrapati Shahu Ji Maharaj Kanpur University, Kanpur, Uttar Pradesh	14
65	Dayalbagh Educational Institute, Agra, Uttar Pradesh	17
66	Dibrugarh University, Dibrugarh, Assam	22
67	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra	19
68	Dr. Ram Manohar Lohia Avadh University, Faizabad, Uttar Pradesh	9

69	Gujarat University, Ahmedabad, Gujarat	15
70	Gulbarga University, Gulabarga, Karnataka	18
71	Guru Jambheshwar University of Science & Technology, Hisar, Haryana	17
72	Gurukula Kangri vishwavidyalaya, Haridwar, Uttarakhand	15
73	Hemchandracharya North Gujarat University, North Gujarat, Gujarat	18
74	Hemwati Nandan Bahuguna Garhwal University, Srinagar, Uttarakhand	13
75	Himachal Pradesh University, Shimla, Himachal Pradesh	19
76	Guru Gobind Singh Indraprastha University, Delhi, Delhi	18
77	Jawaharlal Nehru Technological University, Hyderabad, Andhra Pradesh	15
78	Kakatiya University, Warangal, Andhra Pradesh	16
79	Kalyani University, Kalyani, West Bengal	18
80	Kumaun University, Nainital, Uttarakhand	14
81	Maharshi Dayanand University Rohtak, Rohtak, Haryana	17
82	Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu	17
83	Mohanlal Sukhadia University, Udaipur, Rajasthan	18
84	Nagaland University, Kohima, Nagaland	22
85	Acharya Nagarjuna University, Nagarjunanagar, Andhra Pradesh	16
86	North Maharashtra University, Jalgaon, Maharashtra	17
87	Rani Durgavati Vishwavidyalaya, Jabalpur, Madhya Pradesh	13
88	Sambalpur University, Sambalpur, Orissa	19
89	Saurashtra University, Rajkot, Gujarat	20
90	Veer Narmad South Gujarat University, Surat, Gujarat	18
91	Sri Sathya Sai Institute of Higher Learning, Anantapur, Andhra Pradesh	17
92	Sri Venkateswara University, Tirupati, Andhra Pradesh	19
93	Tripura University, Agartala, Tripura	22
94	University of Burdwan, Burdwan, West Bengal	19
95	University of Lucknow, Lucknow, Uttar Pradesh	18
96	Utkal University, Bhubaneshwar, Orissa	18
97	Vidyasagar University, Midnapore, West Bengal	18
98	Visva-Bharati, Birbhum, West Bengal	19
	Phase III	
99	Alagappa University, Dist-Sivanganga, Tamil Nadu	14
100	Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh	9
101	Bharati Vidyapeeth, , Maharashtra	8
102	Barkatullah University, , Madhya Pradesh	9
103	The English And Foreign Languages University, Hyderabad, Andhra Pradesh	11
104	Central University of Tibetan Studies, Varanasi, Uttar Pradesh	4
105	Deccan College Post-Graduate and Research Institute, , Maharashtra	4

106	Deen Dayal Upadhyaya Gorakhpur University, , Uttar Pradesh	5
107	Dr. Bhim Rao Ambedkar University, Agra, Uttar Pradesh	7
108	Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh	7
109	Gokhale Institute of Politics and Economics, Pune, Maharashtra	10
110	Gandhigram Rural University, Dindigul, Tamil Nadu	9
111	Guru Ghasidas University, Bilaspur, Chhatisgarh	13
112	Gujarat Vidyapith, Ahmedabad, Gujarat	5
113	Indira Kala Sangeet Vishwavidyalaya, Khairagarh, Chhatisgarh	4
114	Jai Narain Vyas University, Jodhpur, Rajasthan	4
115	Jain Vishva Bharati University, Dist. Nagaur, Rajasthan	5
116	Kameshwara Singh Darbhanga Sanskrit University, Darbhanga, Bihar	6
117	Kannada University, Kamalpur; Bellary District, Karnataka	5
118	Lalit Narayan Mithila University, Darbhanga, Bihar	4
119	Magadh University, , Bihar	4
120	Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra	5
121	Mahatma Gandhi Kashi Vidyapeeth, , Uttar Pradesh	4
122	Maulana Azad National Urdu University, Hyderabad, Andhra Pradesh	8
123	Mizoram University, Aizwal, Mizoram	22
124	Mahatma Gandhi Chitrakoot Gramoday Vishwavidyalaya, Chitrakoot, Madhya Pradesh	7
125	Maharshi Dayanand Saraswati University, Ajmer, Rajasthan	4
126	MJP Rohilkhand University, Bareilly, Uttar Pradesh	4
127	Mother Teresa Womens University, Kodaikanal, Tamil Nadu	5
128	Potti Sreeramulu Telugu University, Hyderabad, Andhra Pradesh	4
129	Ranchi University, Ranchi, Jharkhand	8
130	Rabindra Bharati University, Kokatta, West Bengal	4
131	Janardan Rai Nagar Rajasthan Vidyapeeth University, Udaipur, Rajasthan	4
132	Rashtriya Sanskrit Vidyapeeth, , Andhra Pradesh	4
133	Sampurnanand Sanskrit University, Varanasi, Uttar Pradesh	4
134	Shri Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeeth, Katwaria Sarai, Delhi	4
135	Shri Padmavati Mahila Vishwavidyalayam, Chittoor, Andhra Pradesh	4
136	Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya, Kanchipuram, Tamil Nadu	4
137	Sri Krishnadevraya University, Anantapur, Andhra Pradesh	7
138	Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra	6
139	SNDT Women's University, New marine Line ; Mumbai, Maharashtra	8

140	Tamil University, Thanjavur, Tamil Nadu	4
141	Tilak Maharashtra University, Pune, Maharashtra	4
142	Tata Institute of Social Sciences, Deonar ; Mumbai, Maharashtra	11
143	VBS Purvanchal University, Jaunpur, Uttar Pradesh	4
144	Vikram University, Madhya Pradesh	7
145	Kannur University, Kannur, Kerala	6
146	Sikkim University, Gangtok, Sikkim	22
147	Yashwantrao Chavan Maharashtra Open University, Nashik, Maharashtra	3
148	Sree Sankaracharya University of Sanskrit, Ernakulam, Kerala	4
149	Periyar University, Salem, Tamil Nadu	8
150	Bengal Engineering & Science University, Howrah, West Bengal	8
151	Dr. Babasaheb Ambedkar Technology University, Lonere, Maharashtra	8
152	Central University of Gujarat, Gandhinagar, Gujarat	14
153	Institute of Chemical Technology, Mumbai, Maharashtra	9
154	Central University of Karnataka, Gulbarga, Karnataka	13
155	Central University of Kashmir, Srinagar, Jammu and Kashmir	10
156	Central University of Rajasthan, Ajmer, Rajasthan	15
157	Central University of Bihar, Patna, Bihar	14
158	Central University of Jharkhand, Ranchi, Jharkhand	15
159	Central University of Kerala, Kasaragod, Kerala	14
160	Central University of Punjab, Bhatinda, Punjab	17
161	West Bengal University of Technology, Saltlake, West Bengal	7
162	Central University of Tamil Nadu, Tiruvarur, Tamil Nadu	15
163	Central University of Himachal Pradesh, Dist Kangra, Himachal Pradesh	13
164	Central University of Haryana, Dist- Mahendergarh, Haryana	13
165	Deenbandhu Chhotu Ram University of Science & Technology, Sonapat, Haryana	8
166	Gitam University, Visakhapatnam, Andhra Pradesh	9
167	Shri Mata Vaishno Devi University, , Jammu and Kashmir	8
168	Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal, Madhya Pradesh	8
169	Dharmasinh Desai University, Nadiad, Gujarat	8
170	Doon University, Dehradun, Uttarakhand	8
171	Bhagat Phool Singh Mahila Vishwavidyalaya, Sonapat, Haryana	11
172	Ravenshaw University, Cuttack, Orissa	8
173	Dravidian University, Chittoor Dist, Andhra Pradesh	6
174	Davangere University, Davangere, Karnataka	8
175	Chaudhary Devi Lal University, Sirsa, Haryana	8

176	Central University of Orissa, Koraput, Orissa	14
177	Karnataka State Women's University, Bijapur, Karnataka	7
178	Tumkur University, Vishwavidyanilaya Karyalaya, Tumkur, Karnataka	6
179	Baba Ghulam Shah Badshah University, Rajouri, Jammu and Kashmir	7
180	Presidency University, Kolkata, West Bengal	7
181	Fakir Mohan University, Balasore, Orissa	8
182	University of Kota, Kota, Rajasthan	7
183	Ambedkar University, New Delhi	8
184	YMCA University of Science & Technology, Faridabad, Haryana	7
185	Delhi Technological University, New Delhi	6
	IUCs & Other Institutes	
186	Inter University Centre for Astronomy and Astro Physics, Pune, Maharashtra	10
187	Inter University Accelerator Centre, New Delhi, Delhi	9
188	UGC-DAE Consortium for Scientific Research., Indore, Madhya Pradesh	9
189	Indian Institute of Advanced Studies, Shimla, Himachal Pradesh	9
190	National Assessment and Accreditation Council (NAAC), Bangalore, Karnataka	1
	National Law Schools/Universities	
1	National Law School of India University, Bengaluru, Karnataka	3
2	Chanakya National law University, Patna, Bihar	3
3	National Law University, Jodhpur, Mandore, Jodhpur, Rajasthan	3
4	Rajiv Gandhi National University of Law, Punjab, The Mall, Patiala, Punjab	3
5	NALSAR University of Law, Hyderabad, Andhra Pradesh	3
6	National Law Institute University, Bhopal, Bhopal, Madhya Pradesh	3
7	Gujarat National Law University, Gandhinagar, Gujarat	3
8	The WB National University of Juridical Sciences, Kolkata, West Bengal	3
9	Hidayatullah National Law University, Raipur, Chhatisgarh	3
10	Dr. Ram Manohar Lohiya National Law University, Lucknow, Uttar Pradesh	3
11	National University of Advanced Legal Studies, Kochi, Kerala	3
12	Tamilnadu Dr. Ambedkar Law University, Chennai, Tamil Nadu	3
13	National Law University, Cuttack, Cuttack, Orissa	3
14	National Law University, New Delhi, Delhi	3

Appendix - XIII

E-Resources Subscribed under the UGC-Infonet Digital Library Consortium

Sl.	Electronic Resources	URL	No. of Journals	No. of Univ.	Phase
	Full-text Resources				
1	American Chemical Society	http://www.pubs.acs.org/	37	102	I & II
2	American Institute of Physics [@]	http://journals.aip.org/	18	105	I & II
3	American Physical Society	http://publish.aps.org/browse.php	10	105	I & II
4	Annual Reviews	http://arjournals.annualreviews.org/	33	103	I & II
5	Blackwell-Wiley	http://www3.interscience.wiley.com/	908	108	I & II
6	Cambridge University Press	http://journals.cambridge.org/	224	118	I & II
7	Science Direct(10 Subject Collections) [@]	http://www.sciencedirect.com/	1036	61	I & II
8	Economic & Political Weekly	http://epw.in/	1	All	I, II & III
9	Emerald – Lib. Sci. Collection	http://www.emeraldinsight.com/	29	67	I & II
10	Institute of Physics	http://iopscience.iop.org/	46	115	I & II
11	JSTOR	http://www.jstor.org/	2073	116	I, II & III
12	Nature	http://www.nature.com/	1	69	I & II
13	Oxford University Press	http://www.oxfordjournals.org	206	121	I, II & III
14	Portland Press	http://www.portlandpress.com/pp/default.htm	8	57	I & II
15	Project Euclid	http://projecteuclid.org/	35	57	I & II
16	Project Muse	http://muse.jhu.edu/journals	493	101	I & II
17	Royal Society of Chemistry [@]	http://www.rsc.org/Publishing/Journals	29	103	I, II & III
18	SIAM Journals [@]	http://epubs.siam.org/	14	50	I
19	Springer Link	http://www.springerlink.com/	1763	171	I, II & III
20	Taylor & Francis	http://www.tandfonline.com/	1173	133	I, II & III
	Bibliographic Databases				
21	JCCC	http://jccc-infonet.in/		ALL	I, II & III
22	MathSciNet	http://www.ams.org/mathscinet		57	I & II
23	ISID	http://isid.org.in/		ALL	I, II & III
24	SciFinderScholar	http://www.cas.org/		31	I & II
25	RSC Databases(6)	http://www.rsc.org/		103	I & II
26	Web of Science*	http://isiknowledge.com/		100	I
	Legal Databases ^				
27	HeinOnline	http://home.heinonline.org/		14	
28	Manupatra	http://www.manupatra.com/		14	
29	Westlaw India	http://www.westlawindia.com/		14	

* Access provided through NLIST Programme

^ Access to 14 National Law Schools/Universities

@ Access of Back files available for selected Universities

Appendix XIV

DEEPAK JAYANTILAL SHAH & CO.
CHARTERED ACCOUNTANTS

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

ACCOUNT HEAD	RECEIPT & PAYMENT				(Amount-Rs.)	
	F.Y. 2012-2013 (Current Year)		F.Y. 2011-2012 (Previous Year)			
	Receipt	Payment	Receipt	Payment		
Akshar Sales Agency	4,540.00	-	-	-	-	-
Associate Members A/c.	49,284,480.00	40,582,961.00	35,821,316.70	12,679,195.99		
Associate Membership Fee	470,000.00	-	560,000.00	-		
Audit Fee	-	40,000.00	-	32,000.00		
Automation of Gujarat University Library	-	27,328.00	-	240,960.00		
Bank Balance (Cl. Balance)SBI,Guj. Uni.Br-SB A/c-10298781250	-	6,218,091.65	-	6,439,391.25		
Bank Balance (Cl. Balance)SBI,Guj. Uni.Br-SB A/c-10298782049	-	43,347,817.12	-	2,381,745.42		
Bank Balance (Op. Balance)SBI,Guj. Uni.Br-A/c No-10298781250	6,439,391.25	-	8,577,762.77	-		
Bank Balance(Op. Balance)SBI,Guj. Uni.Br-A/c No-10298782049	2,381,745.42	-	4,701,661.42	-		
Bank Charges	-	4,812.00	-	15,238.00		
Basic Rate Difference (BRD) Advance A/c.	4,693,395.00	7,613,633.00	-	-		
Bonus	-	40,009.00	-	34,540.00		
Books & Journals	450.00	-	-	117,810.00		
Building Committee Meeting Exps.	-	3,098.00	-	215,927.00		
Building Maintenance	-	404,988.00	-	159,890.00		
CALIBER-2011	-	12,665.00	-	304,995.00		
CALIBER-2013	-	-	-	-		
Canteen Account	880,137.00	606,884.00	-	121,240.00		
Canteen Subsidy	158,630.00	163,679.00	116,433.00	-		
Car Loan Advance	-	65,456.00	-	54,950.00		
Car Repairs & Maintenance	39,000.00	-	172,000.00	180,000.00		
Cash Contra	-	21,043.00	-	13,177.00		
Cash on Hand(Cl. Balance)	13,908,097.00	13,908,097.00	6,461,222.00	6,461,222.00		
Cash on Hand(Op. Balance)	-	35,000.00	-	32,000.00		
Computer Software	32,000.00	-	32,000.00	-		
Computers	-	90,959.00	-	-		
Conference & Symposium	-	609,153.00	7,394,236.00	1,928,742.00		
Consumable Stores&Spares	-	55,360.00	-	287,800.00		
Conveyance Charges	-	257,324.00	-	340,991.00		
Co-ordinator, INFLIBNET SOUL Service Centre	-	3,980.00	-	2,942.00		
Dearness Allowance (Technical Staff)	1,990,376.00	1,834,678.00	-	-		
Dearness Allowance(Admn. Staff)	-	4,471,862.00	-	2,713,075.00		
Deepak J. Shah & Co.	-	1,499,849.00	-	1,150,669.00		
Devendra G Chauhan	107,231.00	71,231.00	-	-		
Dr. Sarfa Achutian	43,740.00	-	-	-		
	4,000.00	-	-	-		
CARRIED FORWARD	80,437,212.67	121,989,957.77	63,836,631.89	35,908,500.66		

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

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DEEPAK JAYANTILAL SHAH & CO.
CHARTERED ACCOUNTANTS

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

RECEIPT & PAYMENT

ACCOUNT HEAD	F.Y. 2012-2013 (Current Year)		F.Y. 2011-2012 (Previous Year)		(Amount-Rs.)
	Receipt	Payment	Receipt	Payment	
BROUGHT FORWARD	80,437,212.67	121,989,957.77	63,836,631.89	35,908,500.66	
Earnest Money deposit	2,482,000.00	2,534,000.00	3,274,000.00	3,043,500.00	
E-Content A/c.	-	2,090,814.00	-	5,060.00	
Electrical Maintenance	-	21,808.00	879.00	31,515.00	
Electricity charges	-	946,693.00	-	870,400.00	
Entertainment Exps.	-	178,345.00	-	106,356.00	
Equipment Maintenance	-	190,962.00	-	183,602.00	
ETD A/c.	-	-	-	119,488.00	
Excess amount of Associate Members Subscription A/c.	175,473.00	363,078.00	1,305,169.99	187,473.70	
Expenses Payable A/c.	656,500.00	-	-	-	
Festival Advance	-	-	32,250.00	33,750.00	
Finger Print	646,136.00	505,877.00	-	-	
Frinking Machine Advance	138,381.00	115,000.00	169,135.00	175,000.00	
Furniture & Fixture	-	-	179,149.00	108,478.00	
G.B.Meeting Exps.	-	397,323.00	-	287,729.00	
Garden Exps.	-	31,120.00	-	9,052.00	
General Advance	9,686,458.00	9,279,313.00	2,089,093.00	1,940,054.00	
General Repairs & Maintenance	-	33,418.00	-	70,602.52	
Grade Pay(Admn. Staff)	-	446,500.00	-	458,600.00	
Grade Pay/Special Allowance (Tech. Staff)	-	1,338,465.00	-	1,065,800.00	
Group Insurance Saving Scheme	42,345.00	62,756.00	85,174.00	61,578.00	
GRUH Finance LTD.	43,464.00	40,028.00	39,168.00	39,168.00	
Guest House Caretaking charges	-	90,000.00	-	103,100.00	
Honorarium Exps.	-	175,000.00	-	136,000.00	
Hostel Charges	45,145.00	-	36,110.00	-	
Hostel Maintenance	-	5,000.00	-	13,372.00	
Hotel Kanak	40,650.00	-	-	-	
House Building Advance	38,350.00	550,000.00	35,400.00	-	
House Rent Allowance (Admn. Staff)	-	415,648.00	-	422,850.00	
House Rent Allowance(Technical Staff)	-	993,350.00	-	801,564.00	
Income Tax	1,419,691.00	1,263,390.00	1,264,667.00	1,264,667.00	
INFLIBNET Centre Employees P.F.Account	945,082.00	817,373.00	998,252.00	998,252.00	
INFLIBNET Employees Co-Op. Credit Society Ltd.	494,973.00	454,554.00	320,580.00	320,580.00	
INFLIBNET Sports & Recreation club	1,350.00	1,260.00	1,320.00	1,320.00	
Institutional Membership Fee	-	18,000.00	-	58,240.00	
CARRIED FORWARD	97,293,210.67	145,349,032.77	73,666,978.88	48,825,651.88	

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ACCOUNT HEAD	F.Y. 2012-2013 (Current Year)		F.Y. 2011-2012 (Previous Year)	
	Receipt	Payment	Receipt	Payment
BROUGHT FORWARD	97,293,210.67	145,349,032.77	73,666,978.88	48,825,651.88
Interest A/c.	42,190,681.00	-	57,754,561.00	-
Interest on Car Loan	-	-	21,371.00	-
Interest on Deposit (Torrent)	6,332.00	-	-	-
Interest on refund of TDS	-	-	86.00	-
Interest on Scooter Loan	-	-	10,919.00	-
Interest on Service Tax	-	4,931.00	-	-
Interest Receivable on Fix Deposit A/c.	-	7,945,745.00	-	-
Investment in Fix Deposits	781,622,378.00	1,792,004,286.00	2,781,689,007.00	2,359,922,228.00
JBM Graphics	24,264.00	-	-	-
Karamjeet Tourist Services	274,967.00	262,956.00	-	-
Katira Construction	73,196,331.00	73,196,331.00	26,479,465.00	26,479,465.00
L.C. Opening Charges	-	-	-	18,336.00
L.I.C. of India	140,498.00	129,762.00	100,907.00	100,907.00
Land revenue Exps.	-	13,500.00	-	13,500.00
Leave Encashment	-	78,774.00	-	69,882.00
Leave Encashment on retirement	-	217,909.00	-	314,128.00
Leave Salary Contribution	-	154,589.00	41,792.00	-
Loss on sale of Assets	-	-	-	9,394,171.00
LTC Advance	359,450.00	359,450.00	286,480.00	241,530.00
LTC Expenses	-	503,727.00	-	317,801.00
M. S. Makwana	102,169.00	92,991.00	-	-
Malani Construction Company	-	-	18,419,334.00	18,419,334.00
Manpower Hiring charges	-	2,217,520.68	-	1,914,744.00
Material Advance	22,958,835.00	5,056,253.00	-	7,340,299.00
Miscellaneous Exps.	-	5,387.00	-	5,562.00
Miscellaneous Income	7,961.00	-	108,582.00	84,380.00
Mobilisation Advance - Malani	5,577,565.00	-	850,000.00	6,427,565.00
Mobilization Advance - Katira	-	-	5,190,000.00	-
Networking Exps.	-	359,452.00	-	3,000.00
Newsletter Publication Exps.	-	307,572.00	-	785,728.00
Newspaper & Periodicals Exps.	-	50,208.00	-	43,390.00
N-LIST A/c.	376,668.00	1,705,289.00	211,899,349.00	237,820,142.00
NPS Contribution	-	696,217.00	-	485,442.00
NPS Subscriptions	744,127.00	686,146.00	485,442.00	485,442.00
CARRIED FORWARD	1,024,875,436.67	2,031,388,028.45	3,177,004,273.88	2,719,512,627.88

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



ACCOUNT HEAD	F.Y. 2012-2013 (Current Year)		F.Y. 2011-2012 (Previous Year)		(Amount-Rs.)
	Receipt	Payment	Receipt	Payment	
BROUGHT FORWARD	1,024,875,436.67	2,031,398,028.45	3,177,004,273.88	2,719,512,627.88	
Office Equipments	-	114,994.00	819,923.00	132,072.00	
Office Expenses	-	239,351.00	-	157,172.00	
Office Rent	-	858,333.00	-	1,030,000.00	
Office Shifting Exps.	-	376,575.00	-	-	
Org. Secretary - CALIBER-2013	-	843,537.00	-	-	
Other Deductions	16,950.00	16,950.00	13,209.00	13,209.00	
Outstanding Exps.	4,976,195.00	-	-	-	
Overtime Allowance(Admn. Staff)	-	-	-	48.00	
Pay Commission Arrears	-	-	-	878,202.00	
Penal charged to Contractors	-	-	3,100.00	-	
Pension & Gratuity	-	3,638,762.00	-	3,891,680.00	
Pension Payable	1,815,739.00	1,672,364.00	-	-	
Permanent Institutional Building Construction	45,065.00	200,949,557.00	-	54,403,827.00	
Petrol Exps.	-	102,873.00	-	68,407.00	
PLANNER - 2010	-	-	-	100,000.00	
Planner - 2012	43,406.00	32,134.00	-	180,352.00	
Postage & Telegram Exps.	-	315,187.00	-	376,801.00	
Pre-paid Exps.	-	181,197.00	-	-	
Previous Year Expenditure	-	4,435,204.00	-	-	
Print Vision Pvt. Ltd.	143,031.00	-	-	-	
Professional Couriers	159,479.00	159,719.00	-	-	
Professional Fees	-	113,589.00	-	15,500.00	
Professional Tax	122,860.00	113,410.00	99,970.00	99,970.00	
R.A. Advance	110,063,791.00	125,094,296.00	27,254,215.00	28,202,155.00	
Raj Kumar Mandal	584,109.00	565,378.00	-	-	
Ravi Stationery & General Stores	13,163.00	-	-	-	
Recruitment Exps.	-	977,462.00	-	475,603.00	
Regional Training	-	559,750.00	-	483,022.00	
Reimbursement of Medicines	-	1,271,226.00	3,130.00	1,219,116.00	
Rent for Director Residence	-	485,100.00	-	441,000.00	
Retention Money	14,728,096.00	6,819,977.00	4,273,832.00	-	
Retention Money (Godrej)	463,795.00	-	-	-	
Revenue Stamps	648.00	599.00	552.00	552.00	
RTI A/c	60.00	-	130.00	-	
CARRIED FORWARD	1,158,051,823.67	2,381,335,552.45	3,209,472,334.88	2,811,681,315.88	

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

RECEIPT & PAYMENT

ACCOUNT HEAD	F.Y. 2012-2013 (Current Year)		F.Y. 2011-2012 (Previous Year)		(Amount-Rs.)
	Receipt	Payment	Receipt	Payment	
BROUGHT FORWARD	1,158,051,823.67	2,381,335,552.45	3,209,472,334.88	2,811,681,315.88	
Salaries (Admn. Staff)	-	1,577,193.00	-	1,952,333.00	
Salaries (Technical Staff)	-	5,876,827.00	-	5,416,028.00	
Salaries payable	18,283,945.00	16,998,821.00	14,039,610.00	14,039,610.00	
Sandip B. Desai	436,590.00	398,475.00	-	-	
Scientific Equipment	-	85,905.00	1,226,967.00	158,550.00	
Scooter Loan	24,646.00	30,000.00	45,904.00	30,000.00	
Secure Technologies Pvt. Ltd.	92,842.00	71,095.00	-	-	
Security Deposit	1,299,600.00	55,000.00	2,000.00	-	
Security Expenses	-	1,668,940.32	-	1,675,982.00	
Service Charges to AES Hostel for trainees	-	435,417.00	-	475,000.00	
Service Tax Paid	-	86,329.00	-	-	
Shri Abhishek Kumar	33,778.00	-	-	-	
Shri Harsh Domadia	7,000.00	-	-	-	
SOUL Expenses	12,964,328.70	5,601,871.00	19,216,885.00	3,217,300.00	
SOUL Software (Receivable) A/c.	-	267,000.00	-	-	
Staff welfare	-	24,130.00	-	9,409.00	
Stationery & Printing Exps.	-	529,837.00	-	332,398.00	
Stock	79,675.00	62,427.00	54,829.00	79,675.00	
Subscription for technical Journals	-	80,228.00	-	-	
Sundry Deposit	8,673.00	2,027,500.00	-	5,000.00	
TA on Transfer	-	624,070.00	-	-	
TA to candidates	-	-	-	68,643.00	
TDS Deducted (FY 2012-2013)	-	88,911.00	-	-	
TDS on contractor-Advt-company	38,098.00	41,218.00	9,244.00	6,124.00	
TDS on contractor-Company	3,776,609.00	3,536,524.00	1,394,773.00	1,191,672.00	
TDS on contractor-Non-company	71,885.00	69,336.00	18,417.00	17,332.00	
TDS on professional fees	2,331,251.00	4,363,085.00	5,091,040.00	2,585,394.00	
TDS on professional fees-non company	47,375.00	38,515.00	5,150.00	5,150.00	
TDS on Rent	48,510.00	48,125.00	44,100.00	40,250.00	
TDS Receivable	-	-	1,904.00	5,062.00	
TDS Recoverable (Others)	4,272.00	634,320.00	630,048.00	-	
TDS Recoverable from Contractor - M/s. Shree Ambica Travels	-	-	-	240.00	
TDS Recoverable from Contractor - M/s Bennet, Coleman & Co. Ltd.	-	-	-	828.00	
TDS Recoverable from Contractor - M/s BSNL	620,408.00	-	-	620,408.00	
CARRIED FORWARD	1,198,221,309.37	2,426,656,651.77	3,251,253,205.88	2,843,613,703.88	

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



ACCOUNT HEAD	RECEIPT & PAYMENT				(Amount-Rs.)	
	F.Y. 2012-2013 (Current Year)		F.Y. 2011-2012 (Previous Year)			
	Receipt-	Payment	Receipt	Payment		
BROUGHT FORWARD	1,198,221,309.37	2,426,656,651.77	3,251,253,205.88	2,843,613,703.88		
TDS Recoverable from Contractor - M/s. Harsh Systems Pvt. Ltd.	-	-	-	-	38.00	
TDS Recoverable from Contractor - M/s. Katira Construction	-	-	-	-	8,359.00	
TDS Recoverable from Contractor - M/s. M.S. Makwana	175.00	-	-	-	175.00	
Telephone & Trunk call Exps.	-	282,984.60	-	-	219,233.00	
Tender Fee	83,000.00	-	-	2,200.00	-	
Torrent Power Ltd.	972,292.00	906,353.00	-	-	363,528.00	
Transport Allowance(Admn. Staff)	-	429,577.00	-	-	760,480.00	
Transport Allowance(Technical Staff)	-	1,043,204.00	-	-	85,805.00	
Travelling Advance	59,400.00	55,400.00	87,805.00	-	1,525,005.00	
Travelling Exps.	-	1,115,860.00	51,262.00	-	-	
U.G.C. Grants (Non-Plan)	46,864,000.00	-	-	51,233,000.00	-	
U.G.C. Grants (Non-Plan) Previous Year	12,767,000.00	-	-	-	-	
U.G.C. Grants for Building	74,350,000.00	-	-	-	-	
U.G.C. Grants for E- Subscription	1,450,000,000.00	353,824,857.00	1,000,000,000.00	1,394,745,552.00	-	
U.G.C. Grants for North Eastern Region	-	720,000.00	-	-	17,554,194.00	
U.G.C. Grants for Shodhganga	17,382,000.00	805,111.00	-	-	-	
U.G.C. Grants Receivable (Internet Connectivity)	-	592,461.00	-	-	-	
U.G.C. INFONET	-	16,101,494.00	-	-	43,186,300.00	
UGC grants for Internet Connectivity	-	1,575,243.00	2,175,000.00	-	599,757.00	
UGC grants for Website	1,000,000.00	510,525.00	1,000,000.00	-	643,615.00	
University of Delhi	1,450,080.00	1,222,056.00	1,263,595.00	-	1,349,323.00	
University of Hyderabad	4,278,117.00	1,696,605.00	-	-	1,873,814.00	
Vehicle Hire Charges	-	909,608.00	-	-	598,400.00	
Vehicle Insurance Exps.	-	8,822.00	-	-	-	
Viswami Security Agency Pvt. Ltd.	3,198,543.00	2,795,760.00	-	-	-	
With Held for Workman ship	824,166.00	-	-	-	-	
Workshop on Digital Collections	115,000.00	38,332.00	108,250.00	-	47,036.00	
Workshop on Library Automation	-	278,328.00	-	-	-	
Yashraj Sales Agency	4,150.00	-	-	-	-	
BALANCE	9,929,327,218.47	17,025,027,678.79	23,857,641,168.70	21,226,257,918.24		





Information and Library Network Centre

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