



INFLIBNET NEWSLETTER

ISSN : 0971- 9849
Vol. 23, No.2 (April to June 2016)



Article

Data Repositories in India with Specific Reference to "ICSSR Data Service:
Indian Social Science Data Repository"

Pallab Pradhan, Scientist B (LS)

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From Director's Desk



The second quarter of the year witnessed launching of India Rankings 2016 using National Institutional Ranking Framework by Mrs. Smriti Zubin Irani, Hon'ble Minister of Human Resource Development on 4th April 2016 at Vigyan Bhawan, New Delhi. The INFLIBNET Centre was assigned the task of developing web portal for India Rankings 2016 as well as for providing data on publications and citations for more than 3,500 institutions that were applicant for the ranking using NIRF framework. The INFLIBNET Centre played a key role in this process of ranking and Mrs. Smriti Zubin Irani, Hon'ble Minister of Human Resource Development, acknowledged its contributions during the launch of India Rankings 2016. I would like to put on record that a team of young scientists from INFLIBNET Centre worked day and night with full dedication to make India Rankings 2016 possible under the able guidance of Prof. Surendra Prasad, Chairman, NBA. Our experience of evolving ranking of Indian universities using bibliometric parameters (<http://www.inflibnet.ac.in/iur/>) proved useful in the process of evolving India Rankings 2016.

I am pleased to put on records that Mr. R Subrahmanyam, IAS, Additional Secretary (TEL) & Mission Director, NME-ICT visited the Centre during the period under report and spent more than four hours with the scientists and staff of the Centre. He was appreciative of the activities and services offered by the INFLIBNET Centre and made several suggestions for improvement of our services and for extending its access to wider academic community in India.

During the quarter under report, eleven training programmes and workshops were organized. These included four National Workshops on Capacity Building Programme for Public Library Personnel, two of which were organized at INFLIBNET Centre and one each in Lucknow and Kalyani for the National Mission on Libraries, Ministry of Culture. Two User Awareness programmes on Shodhganga and URKUND were organized at Sri Venkateswara University, Tirupati and Central University of Rajasthan, Ajmer to promote open access to theses and dissertations as well as for their qualitative improvement in terms of plagiarism-free content. Two Training Programme on SOUL 2.0, One National Workshop on Metadata Standards: Retrospective Conversion, Preservation, Harvesting and Migration and one Advanced Training Programme on Bibliometric and Research Output Analysis were organized at INFLIBNET Centre. A special demand-based training programme was organized on Latest Trends in Library and Information Science for LIS Teachers of North East India at INFLIBNET Centre during April, 2016. All the LIS teachers in North-East Region participated in the programme and appreciated the special efforts put in by the INFLIBNET Centre in organizing such a programme.

The Centre also hosted National Workshop on MOOCs organized by the UGC and INFLIBNET Centre at Gandhinagar on 24th May, 2016. Principal Investigators, Paper Coordinators, Content writers of e-PG Pathshala and other stakeholders benefitted from the programme. During the Workshop, experienced faculty having in-depth experience on creation of content for MOOCs made presentations. Soon after imparting National Workshops on MOOCs, the INFLIBNET Centre committed itself for developing MOOCs courses for seven papers in Library and Information Science. Efforts have been initiated for offering MOOCs courses in these seven subjects including Knowledge Society, Information Sources System and Services, Information and Communication Technology for Libraries, Management of Libraries and Information Centres & Knowledge Centres, Information Storage and Retrieval, Digital Libraries and Bibliometrics and Scientometrics. These courses would be offered through SWAYAM platform as soon as the platform is ready.

The feature article in this issue is Data Repositories in India with Specific Reference to "ICSSR Data Service: Indian Social Science Data Repository" by Mr. Pallab Pradhan, Scientist B (CS), which talks about data repositories in India with specific reference to ICSSR Data Services. I am sure you would enjoy going through this article.



(Jagdish Arora)

Training Programme on SOUL 2.0, INFLIBNET Centre, Gandhinagar

The INFLIBNET Centre regularly conducts SOUL 2.0 Training Programmes to impart Training on Installation and Operation of SOUL Software for its users. The following two training programmes were organized at the INFLIBNET Centre, Gandhinagar during this quarter.

These programmes were coordinated by Mr. H G Hosamani, Scientist C (LS), INFLIBNET Centre. 41 participants attended these two training programmes as per the details given below:

Sl. No.	Name of the Programme	Date of the Programme	No. of Participants
1	125 th Training Programme on SOUL 2.0	4 th -9 th April, 2016	14
2	126 th Training Programme on SOUL 2.0	30 th May-04 th June, 2016	27



Participants of 125th Training Programme on SOUL 2.0 with the Director and Technical Staff of the INFLIBNET Centre



Participants of 126th Training Programme on SOUL 2.0 with the Director and Technical Staff of the INFLIBNET Centre

User Awareness Programme on Shodhganga and URKUND: A Plagiarism Detection Tool

One-day User Awareness Programme on Shodhganga and URKUND: A Plagiarism Detection Tool, Sri Venkateswara University, Tirupati, 20th April, 2016

One-day User Awareness Programme on Shodhganga and URKUND: A Plagiarism Detection Tool was organized by Sri Venkateswara University Library, Tirupati in collaboration with INFLIBNET Centre, Gandhinagar at Arts Block Auditorium, S.V. University, Tirupati on 20th April 2016. Dr. K. Surendra Babu, Librarian I/C, coordinated the programme and welcomed the guests and participants. Prof. A. Damodaram, Hon'ble Vice-Chancellor inaugurated the programme. In his inaugural address, he stressed upon

the importance of quality research and commitment of the faculty and researchers for development of research in their respective subjects. He also highlighted the vision of the university in producing quality research and steps taken to improve the quality research. Mr. Manoj Kumar K, Scientist D (CS), INFLIBNET Centre made a detailed presentation on Shodhganga and URKUND: a plagiarism Detection tool. Prof. M. Devarajulu, Registrar chaired the programme and gave the presidential remarks. Around 300 participants including faculty members and research scholars attended the programme. Dr. K. Surendra Babu, Librarian I/C extended a warm vote of thanks at the end of the programme.



Participants of User Awareness Programme on Shodhganga and URKUND:
A Plagiarism Detection Tool at Sri Venkateswara University, Tirupati

One-day User Awareness Programme on Shodhganga and URKUND: A Plagiarism Detection Tool, Central University of Rajasthan, Ajmer, 9th May, 2016

One-day User Awareness Programme on Shodhganga and URKUND: A Plagiarism Detection Tool was organized by Central University of Rajasthan in collaboration with INFLIBNET Centre, Gandhinagar at

University Auditorium, Central University of Rajasthan, Ajmer on 9th May, 2016. Prof. (Dr.) Arun K Pujari, Hon'ble Vice-Chancellor inaugurated the programme by lighting the traditional lamp in presence of Mr. Manoj Kumar K, Scientist D (CS), INFLIBNET Centre and Dr. Vijaykumar M, Librarian and Coordinator of the

programme. Mr. Manoj Kumar K delivered welcome address and briefed about different types of plagiarism and their legal consequences. Prof. (Dr.) Arun K Pujari, in his inaugural address, shared his views about

plagiarism detection tool. Dr. Vijaykumar M extended a warm vote of thanks to the dignitaries on the dais and distinguished participants from different universities/institutions from the state of Rajasthan.



Dr. Vijaykumar M, Librarian, Prof. (Dr.) Arun K Pujari, Vice-Chancellor, Central University of Rajasthan and Mr. Manoj Kumar K, Scientist D (CS), INFLIBNET Centre on the dais during User Awareness Programme on Shodhganga and URKUND: A Plagiarism Detection Tool at Central University of Rajasthan, Ajmer

Mr. Manoj Kumar K delivered a presentation and live demonstration on Shodhganga and URKUND: a plagiarism detection tool, he elaborated as to how it benefits the academic community to improve the quality of research output. The session was highly interactive with a number of questions from the audiences. Mr. Saroja Kumar Panda, STA (LS),

INFLIBNET Centre delivered a presentation on e-Shodh Sindhu. Certificates of participation were distributed at the end of programme. Around 150 participants including students, research scholars and faculty members from the Central University of Rajasthan and professionals from different universities and institutions from the state of Rajasthan attended the programme.



Specialized Training Programmes and National Workshops

Two-day Training Programme on Latest Trends in Library and Information Science for LIS Teachers of North East India, INFLIBNET Centre, Gandhinagar, 15th -16th April, 2016

Two-day Training Programme on Latest Trends in Library and Information Science for LIS Teachers of North-East India was organized at INFLIBNET Centre, Gandhinagar from 15th to 16th April, 2016.

Mr. H G Hosamani, Scientist C (LS), INFLIBNET Centre coordinated the programme. Dr. Jagdish Arora, Director inaugurated the programme. 27 participants attended the programme. The training programme covered theoretical and practical sessions on the following topics related to latest trends in library and information science for LIS teachers of North East India:

Topics	Name of the Expert
Thesaurus to Ontology: An Overview of Developments in Classification & Knowledge Organization	Prof. K S Raghvan, Retired Professor DRTC, Bangalore
E-Learning: Content Creation and Hosting using MOOC Institutional Repository and Anti-Plagiarism	Mr. Abhishek Kumar, Scientist C(CS), INFLIBNET Centre
INFLIBNET Activities and Services	Mr. Manoj Kumar, Scientist D(CS), INFLIBNET Centre
Interpersonal Skills for LIS Professionals	Dr. Jagdish Arora, Director, INFLIBNET Centre
Emerging Technology in LIS with reference to Use of Social Networks and ICT Tools in Teaching-Learning	Dr. Usha Munshi, Librarian, IIPA, Delhi
Content Management System: Tools and Software	Dr. Usha Munshi, Librarian, IIPA, Delhi
Bibliometric Tools and Techniques	Mr. Ashok Kumar Rai, Scientist D(CS), INFLIBNET Centre
	Ms. Kruti Trivedi, Scientist B(LS), INFLIBNET Centre



Participants of Training Programme on Latest Trends in Library and Information Science for LIS Teachers of North East India with the Director and Technical Staff of INFLIBNET Centre

4th Five-day National Workshop on Capacity Building Programme of National Mission on Libraries for Public Library Personnel, INFLIBNET Centre, Gandhinagar, 25th-29th April, 2016

4th Five-day National Workshop on Capacity Building Programme of the National Mission on Libraries for Public Library Personnel was organized at INFLIBNET Centre, Gandhinagar from 25th to 29th April, 2016. Mr. H

G Hosamani, Scientist C (LS), Mr. Kannan P, Scientist C (LS) and Mr. Miteshkumar Pandya, Scientist B (LS), INFLIBNET Centre coordinated the programme. Dr. Jagdish Arora, Director inaugurated the programme. 33 participants attended the programme. The National Workshop covered theoretical and practical sessions on the following topics related to Capacity Building Programme:

Topics	Name of the Expert
National Mission on Libraries : An Overview	Mr. Manoj Kumar K, Scientist D (CS), INFLIBNET Centre
Open Source Tools for Libraries	Mr. Abhishek Kumar, Scientist C (CS), INFLIBNET Centre
Library Automation: An Overview	Dr. Jagdish Arora, Director, INFLIBNET Centre
Library Automation : (Acquisition-Koha)	Mr. Miteshkumar Pandya, Scientist B (LS), INFLIBNET Centre
Understanding Modern Library Standards MARC and Dublin Core	Mr. Dinesh R Pradhan, Scientist B (LS), INFLIBNET Centre
Library Automation (Circulation- Koha)	Mr. H G Hosamani, Scientist C (LS), INFLIBNET Centre
Multilingual information representation through Unicode for Indic Scripts	Mr. Yatrik Patel, Scientist D (CS), INFLIBNET Centre
Standards and Formats for Digitization, Digitization Process and Hands On Practice	Mr. Manoj Kumar, Scientist D (CS), INFLIBNET Centre
Use of Social Media and other Web 2.0 tools for Libraries	Ms. Kruti Trivedi, Scientist B (LS), INFLIBNET Centre
Changing Roles of Public Libraries and Community Based Information Services	Dr. Muttayya Koganuramath, Professor & Head, Central University Gujarat, Gandhinagar
Emerging Trends for Libraries in Context of Public Libraries	Mr. Kannan P., Scientist C (LS), INFLIBNET Centre
Introduction to e-Resources and Discovery Tools	Mr. Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre
Library Services for Specially-abled Persons	Dr. Muttayya Koganuramath, Professor & Head, Central University Gujarat, Gandhinagar
Effective Communication Skill	Dr. T S Kumbar, Librarian, IIT Gandhinagar



Participants of 4th National Workshop on Capacity Building Programme of National Mission on Libraries for Public Library Personnel with the Director and Technical Staff of INFLIBNET Centre

5th Five-day National Workshop on Capacity Building Programme of National Mission on Libraries for Public Library Personnel, INFLIBNET Centre, Gandhinagar, 9th-13th May, 2016

5th Five-day National Workshop on Capacity Building Programme of National Mission on Libraries for Public Library Personnel was organized at INFLIBNET Centre, Gandhinagar from 9th to 13th May, 2016. Mr. H G

Hosamani, Scientist C (LS), Mr. Kannan P, Scientist C (LS) and Mr. Miteshkumar Pandya, Scientist B (LS), INFLIBNET Centre coordinated the programme. Mr. Ashok Kumar Rai, Scientist D (CS) inaugurated the programme. 23 participants attended the programme. The National Workshop covered theoretical and practical sessions on the following topics related to Capacity Building Programme:

Topics	Name of the Expert
National Mission on Libraries : An Overview	Mr. Kannan P, Scientist C (LS), INFLIBNET Centre
Open Source Tools for Libraries	Mr. Abhishek Kumar, Scientist C (CS), INFLIBNET Centre
Multilingual information representation through Unicode for Indic Scripts	Mr. Yatrik Patel, Scientist D (CS), INFLIBNET Centre
Library Automation : (Acquisition-Koha)	Mr. Miteshkumar Pandya, Scientist B (LS), INFLIBNET Centre
Library Automation: Overview	Mr. Pallab Pradhan, Scientist B (LS), INFLIBNET Centre
Library Automation (Circulation-Koha)	Mr. H G Hosamani, Scientist C (LS), INFLIBNET Centre
Understanding Modern Library Standards MARC and Dublin Core	Mr. Dinesh R Pradhan, Scientist B (LS), INFLIBNET Centre
Standards and Formats for Digitization, Digitization Process and "Hands On" Practice	Mr. Manoj Kumar K., Scientist D (CS), INFLIBNET Centre
Use of Social Media and other Web 2.0 Tools for Libraries	Ms. Kruti Trivedi, Scientist B (LS), INFLIBNET Centre
Introduction to e-resources and Discovery Tools	Mr. Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre
Library Services for Specially-abled Persons	Dr. Muttayya Koganuramath, Professor & Head, Central University Gujarat, Gandhinagar
Effective Communication Skill	Dr. T S Kumbar, Librarian, IIT Gandhinagar



Participants of 5th National Workshop on Capacity Building Programme of National Mission on Libraries for Public Library Personnel with the Director and Technical Staff of INFLIBNET Centre

Three-Day National Workshop on Metadata Standards: Retrospective Conversion, Preservation, Harvesting and Migration, INFLIBNET Centre, Gandhinagar, 16th-18th May, 2016

Three-day National Workshop on Metadata Standards: Retrospective Conversion, Preservation and Migration was organized at INFLIBNET Centre,

Gandhinagar from 16th to 18th May, 2016. Mrs. Vaishali Shah, Scientist B (LS) and Mr. Miteshkumar Pandya, Scientist B (LS), INFLIBNET Centre coordinated the workshop. Dr. Jagdish Arora, Director, INFLIBNET Centre inaugurated the workshop. 11 participants attended the workshop. The National Workshop covered theoretical and practical sessions on the following topics related to Metadata Standards:

Topics	Name of the Expert
INFLIBNET Activities and Services	Mr. Manoj Kumar K, Scientist D (CS), INFLIBNET Centre
Importance of Metadata and Overview of Metadata Standards	Mr. Abhishek Kumar, Scientist C (CS), INFLIBNET Centre
Understanding MARC21, MARCXML and Dublin Core	Mr. Yatrik Patel, Scientist D (CS), INFLIBNET Centre
Retrospective Conversion: Introduction, Need, Scope, Planning, Method & Steps: Hands on Practice	Mrs. Vaishali Shah, Scientist B (LS), INFLIBNET Centre
Retrospective Conversion of Metadata (Books and Journal Articles) using ISISMARC	Mr. Miteshkumar Pandya, Scientist B(LS), INFLIBNET Centre
Insights for Converting Multilingual Bibliographic Data	Mr. Yatrik Patel, Scientist D (CS), INFLIBNET Centre
“Hands-On” Demonstration : Copy Cataloguing and XL2MARCXML Utility Developed by the INFLIBNET Centre	Mr. Divyakant Vaghela, Scientist B (CS), INFLIBNET Centre
Data Migration between CSV to ISO 2709 CCF and MARC using MARCEdit	Dr. G. K. Manjunath, Chief Librarian, IGIDR, Mumbai
Understanding Metadata Harvesting & Preservation	Mr. Miteshkumar Pandya, Scientist B (LS), INFLIBNET Centre



Participants of the National Workshop on Metadata Standards: Retrospective Conversion, Preservation, Harvesting and Migration at INFLIBNET Centre, Gandhinagar

6th Five-day National Workshop on Capacity Building Programme of National Mission on Libraries for Public Library Personnel, Era's Lucknow Medical College & Hospital, Lucknow, 23rd-27th May, 2016

6th Five-day National Workshop on Capacity Building Programme of National Mission on Libraries for Public Library Personnel was organized by Era's Lucknow Medical College & Hospital in collaboration with INFLIBNET Centre, Gandhinagar at Era's Lucknow Medical College & Hospital, Lucknow from 23rd to 27th May, 2016. Mr. H G Hosamani, Scientist C (LS),

Mr. Kannan P, Scientist C (LS) and Mr. Miteshkumar Pandya, Scientist B (LS), INFLIBNET Centre coordinated the programme. Dr. (Prof.) Kumkum Srivastava, Principal, Dean & CMS inaugurated the programme. 37 participants attended the programme. Mr. Kashif Khan, Librarian, Era's Lucknow Medical College & Hospital extended a warm vote of thanks at the end of the programme. The National Workshop covered theoretical and practical sessions on the following topics related to Capacity Building Programme:

Topics	Name of the Expert
National Mission on Libraries : An Overview	Mr. Kannan P, Scientist C (LS), INFLIBNET Centre
Library Automation: An Overview	Dr. Jyoti Mishra, Deputy Librarian, University of Lucknow
Effective Communication Skill	Mr. Kashif Khan, Librarian, Era's Lucknow Medical College & Hospital
Library Automation : (Acquisition-Koha)	Mr. Miteshkumar Pandya, Scientist B (LS), INFLIBNET Centre
Library Automation (Cataloguing, Circulation and OPAC-Koha)	Mr. H G Hosamani, Scientist C (LS), INFLIBNET Centre
Understanding Modern Library Standards MARC and Dublin Core	Mr. Miteshkumar Pandya, Scientist B(LS), INFLIBNET Centre
Library Automation(Circulation -Koha)	Mr. H G Hosamani, Scientist C(LS), INFLIBNET Centre
Multilingual information representation through Unicode for Indic Scripts	Dr. Manish Kumar, Information Scientist, BHU
Standards and Formats for Digitization, Digitization Process and "Hands-On" Practice	Dr. D K Singh, Deputy Librarian, BHU, Varanasi
Library Services for Specially-abled Persons	Dr. D K Singh, Deputy Librarian, BHU, Varanasi
Changing Roles of Public Libraries and Community-based Information Services	Dr. B K Singh, Librarian, Allahabad University
Introduction to e-resources and Discovery Tools	Dr. Manish Kumar, Information Scientist, BHU
Use of Social Media and other Web 2.0 Tools for Libraries	Dr. Anjali Gulati, Asst. Professor & Head DLISc, Isabella Thoburn College, Lucknow
Social Media and Web 2.0 "Hands-On" Practice	Dr. Anjali Gulati, Asst. Professor & Head DLISc, Isabella Thoburn College, Lucknow
Emerging Trends for Libraries in Context of Public Libraries	Mr. Kashif Khan, Librarian, Era's Lucknow Medical College & Hospital, Lucknow
Open Source Tools for Libraries	Dr U M Raja Librarian, IIM- Lucknow



Participants of 6th National Workshop on Capacity Building Programme of National Mission on Libraries for Public Library Personnel at Era's Lucknow Medical College & Hospital, Lucknow

Advanced Training Programme on Bibliometric and Research Output Analysis, INFLIBNET Centre, Gandhinagar, 13th-17th June, 2016

The INFLIBNET Centre organized Advanced Training Programme on Bibliometrics and Research Output Analysis from 13th to 17th June, 2016 at INFLIBNET Centre, Gandhinagar. Mr. Manoj Kumar K., Scientist D (CS) lighted the ceremonial lamp along with Mr. H. G.

Hosamani, Scientist C (LS), Ms. Kruti Trivedi, Scientist B (LS) and Mr. Hitesh Solanki, Scientist B (CS) INFLIBNET Centre during the inaugural function. The aim of the training programme was to impart training on bibliometric methods, performance indicators and tools and techniques of bibliometric analysis and mapping. Details of lectures delivered by the experts during the training programme are mentioned below:

Topics	Name of the Expert
Research impact metrics: calculation & context	Ms. Kruti Trivedi, Scientist B (LS), INFLIBNET Centre
Tools and Techniques (Bibexcel) (demonstration)	Ms. Kruti Trivedi, Scientist B (LS) & Mr. Hiteshkumar Solanki, Scientist B (CS), INFLIBNET Centre
Bibliometrics Elements and Laws, Mathematical Foundation of Bibliometrics / Scientometrics	Prof. I K Ravichandra Rao, Professor, PES Institute of Technology
Scopus & SciVal (Demonstration)	Ms. Tahseen Afroz, Scopus
Academic identity with reference to Orchid ID	Mr. P. Kannan, Scientist C (LS), INFLIBNET Centre
Web of Science & Incites (Demonstration)	Mr. Abhishek Kohli, Thomson Reuters
Indian Citation Index (Demonstration)	Mr. Mandar Manohar Gosavi, Indian Citation Index
Tools and Techniques (VOS Viewer) (demonstration)	Ms. Kruti Trivedi, Scientist B (LS), INFLIBNET Centre
Tools and Techniques Part V (Sci ²) (demonstration)	Mr. Hiteshkumar Solanki, Scientist B (CS), INFLIBNET Centre
Rankings of University based on Research Performance	Mr. Abhishek Kumar, Scientist C (CS), INFLIBNET Centre
Altmetrics	Mr. Pallab Pradhan, Scientist B (LS), INFLIBNET Centre



Participants of the Advance Training Programme on Bibliometric and Research Output Analysis at INFLIBNET Centre, Gandhinagar

Mrs. Pallavi, Project Officer (LS), Mrs. Deepti S. Pandey, Mr. Kumar Gaurav and Mr. Santosh Sen, Project Associates (LS) were resource persons in practical sessions of the training programme. Certificates of participation were distributed at the end of programme.

33 participants including LIS professionals and research scholars attended the programme. Mr. H. G. Hosamani, Scientist C (LS) extended a warm vote of thanks to participants, faculty and publishers.

7th Five-day National Workshop on Capacity Building Programme of National Mission on Libraries for Public Library Personnel, University of Kalyani, Kalyani, 20th-24th June, 2016

7th Five-day National Workshop on Capacity Building Programme of the National Mission on Libraries for Public Library Personnel was organized by University of Kalyani in collaboration with INFLIBNET Centre, Gandhinagar at Department of Library and Information

Science, University of Kalyani, Kalyani from 20th to 24th June, 2016. Mr. H G Hosamani, Scientist C (LS), Mr. Kannan P, Scientist C (LS) and Mr. Miteshkumar Pandya, Scientist B (LS), INFLIBNET Centre coordinated the programme. Professor (Dr.) Malayendu Saha, Vice-Chancellor inaugurated the programme. 36 participants attended the programme. The National Workshop covered theoretical and practical sessions on the following topics related to Capacity Building Programme:

Topics	Name of the Expert
National Mission on Libraries : An Overview	Sri Anirban Biswas, System Manager, RRRLF, Kolkata
Library Automation: Overview and Open Source Tools for Libraries	Sri Abhijit Bhowmik, Librarian, State Central Library, West Bengal
Library Automation: Introduction to Koha, Configuring Koha, Acquisition Module of Koha	Dr. P.S. Mukhopadhyay, Associate Prof., DLIS, University of Kalyani
Understanding Modern Library Standards MARC and Dublin Core	Mr. H.G. Hosamani, Scientist C (LS) INFLIBNET Centre
Emerging Trends for Libraries in Context of Public Libraries	Prof. S C Biswas, DLIS, Burdwan University
Changing Roles of Public Libraries and Community-based Information Services	Prof. J K Sarkhel, DLIS, University of Kalyani
Library Automation (Cataloguing, Circulation and OPAC-Koha)	Prof. P. S. Mukhopadhyay, DLIS, University of Kalyani
Use of Social Media and other Web 2.0 Tools for Libraries	Mr. Miteshkumar Pandya, Scientist B (LS), INFLIBNET Centre
Koha – Report generation and other utilities	Prof. P. S. Mukhopadhyay, DLIS, University of Kalyani
Standards and Formats for Digitization, Digitization Process and “Hands On” Practice	Dr. D. K. Singh, Deputy Librarian, BHU
Social Media and Web 2.0 (including their applications in Library OPAC): Hands on Practice	Practical Staff lead by Dr. PS Mukhopadhyay and Mr.Miteshkumar Pandya
Library Services for Specially-abled persons	Dr. D. K. Singh, Deputy Librarian, BHU
Multilingual information representation through Unicode for Indic Scripts	Mr. Miteshkumar Pandya, Scientist B (LS), INFLIBNET Centre
Introduction to e-Resources and Discovery Tools	Mr. Kannan P, Scientist C (CS), INFLIBNET Centre
Effective Communication Skills	Dr. Niladri Chatterjee, Professor, Dept. of English, University of Kalyani



Participants of 7th National Workshop on Capacity Building Programme of National Mission on Libraries for Public Library Personnel at University of Kalyani, Kalyani

National Workshop on MOOCs, INFLIBNET Centre, Gandhinagar, 24th May 2016



Dr. Jagdish Arora, Director, INFLIBNET Centre, Dr. (Mrs) Pankaj Mittal, Additional Secretary, Prof. H Devaraj, Vice Chairman, UGC, Prof. Uma Kanjilal, DLIS, IGNOU and Mr. Pradeep Kaul, Senior Consultant, NME-ICT, MHRD on the Dais and Participants during Inaugural Session of National Workshop on MOOCs at INFLIBNET Centre, Gandhinagar

National Workshop on MOOCs was organized by the University Grants Commission (UGC) at INFLIBNET Centre, Gandhinagar on 24th May 2016. The objective of the Workshop was to re-purpose e-content developed under e-PG Pathshala, into MOOCs compliant format. Dr. Jagdish Arora, Director, INFLIBNET welcomed the dignitaries on the dais as well as guests and participants. He briefed about the agenda of the Workshop. Dr. (Mrs) Pankaj Mittal, Additional Secretary, UGC briefed about content developed under e-PG Pathshala and nuances of making it MOOC compliant. Prof H Devaraj, Vice Chairman, UGC inaugurated the Workshop. In his inaugural address, he briefly outlined revolutionary

developments that are taking place in the area of e-content development and delivery by major players like MIT, EdX, Coursera, etc. He also stressed upon the fact that content developed under e-PG Pathshala would have international exposure through SWAYAM. As such the SMEs are expected to deliver high-quality e-Content. Prof Uma Kanjilal, DLIS, IGNOU and Mr. Pradeep Kaul, Senior Consultant, NME-ICT, MHRD also shared their views. Mr. Abhishek Kumar, Scientist C (CS), INFLIBNET Centre extended a warm vote of thanks. More than 125 subject experts from across the country attended the Workshop. Representative from NCERT, NIOS and multimedia vendors also attended the Workshop.

Technical Sessions



Speakers of the Technical Sessions

Dr. (Mrs.) Pankaj Mittal was Conference Director. Mr. Pradeep Kaul chaired the technical session- I. The session had the following three presentations:

- a) "Guidelines for re-purposing of e-Content: Role of Academician and Multimedia" by Dr. Pankaj Mittal and Mr. Abhishek Kumar. This presentation was focused on basic introduction to the MOOCs and how to re-purpose the e-PG Pathshala content into MOOC. The presenters also gave a checklist for each module and course along with steps to be taken for re-purposing the content. The presenters also demonstrated a dummy site that showed e-PG Pathshala content on 'ICT for Libraries', repurposed and made complaint to MOOCs.
- b) "Experience of re-purposing e-Content into MOOC" by Dr. G S Bajpai, Registrar, National Law University. Dr Bajpai demonstrated MOOC platform called WizIQ. He re-purposed one of the modules of 'Law' and uploaded the same on WizIQ platform.
- c) "Experience of re-purposing e-Content into MOOC" by Dr. Vimal Rarh, Assistant Professor, Khalsa

College, Delhi. She demonstrated content hosted on MOODLE. She also explained efforts that are required for re-purposing the content.

Prof. Uma Kanjilal chaired the technical session-II. Dr Andrew Thangaraj, Professor, IIT Madras, presented his experience on NPTEL MOOC. He also shared the features and functionalities of NPTEL MOOC.

The vendors, Empaneled for multimedia work for e-PG Pathshala, were given a chance to interact with the participants and speak about roles that multimedia vendors can play in this endeavour. Empaneled vendors shared their experiences and selected works done by them on multimedia enrichment of content and video recording.

Open Discussions

Open discussions were part of both technical sessions. Most of the SMEs cleared their doubts about the SWAYAM. Questions were asked about the regulation of course, timeline, payment, affiliation of universities / institutes in case of paper coordinators who either belonged to private institutes or retired. The member of sub-Committee answered all the questions to SMEs.

E-Content Development / Meeting /Workshop under e-PG Pathshala

Meeting for the stakeholders of the paper 'Food Technology', INFLIBNET Centre, Gandhinagar, 30th April-2nd May, 2016

The INFLIBNET Centre organized a Meeting for the stakeholders of the paper 'Food Technology' at INFLIBNET Centre, Gandhinagar from 30th April to 2nd May, 2016. The Stakeholders of the paper, Prof.

VijayaKhader, Principal Investigator, Prof P. N. Raju, Prof. Dibyakant Seth and Prof. K. K. Dash, Paper Coordinators, presented the progress made in the subject 'Food Technology' including overall status of all papers. Representatives of the Nexzenpro Media Technologies were present for multimedia recording.



Dr. Jagdish Arora, Director, INFLIBNET Centre, Prof. Vijaya Khader, Principal Investigator, Prof. P. N. Raju, Prof. Dibyakant Seth and Prof. K. K. Dash, Paper Coordinators and Ms. Shweta Brahmhatt, Project Officer (CS), INFLIBNET Centre during the Meeting for the stakeholders of the paper 'Food Technology' at INFLIBNET Centre



SOUL 2.0
STATE-OF-THE-ART INTEGRATED
LIBRARY MANAGEMENT SOFTWARE
<http://www.inflibnet.ac.in/soul>

Visit of Mr. R. Subrahmanyam, Additional Secretary (TEL) to the INFLIBNET Centre, Gandhinagar, 7th April 2016

Mr. R. Subrahmanyam, Additional Secretary (TEL) visited the INFLIBNET Centre, Gandhinagar on 7th April 2016. During his visit, he had a meeting with all the scientists of the Centre. A short film on INFLIBNET was screened to the Additional Secretary and following presentations were made to him during the meeting.

- i) INFLIBNET Centre: Major Activities and Services, by Dr. Jagdish Arora, Director;
- ii) e-Acharya: Background, Overview and Current Status, by Mr. Abhishek Kumar, Scientist C (CS);
- iii) Vidwan: Expert Database, by Mr. P. Kannan, Scientist C (LS);
- iv) e-Shodh Sindhu: Current Status, by Mr. Ashok Kumar Rai, Scientist D (CS);
- v) Off- Campus Access to e-Resources using

Shibboleth: Implementation Status, by Mr. Yatrik Patel, Scientist D (CS) and Mr. V. Raja, Scientist B (CS);

- vi) InfiStat: Harvesting and Monitoring Usage Data, by Mr. Dinesh Ranjan Pradhan Scientist B (LS); and
- vii) Bibliometric and Citation Analysis for Measuring Research Output, by Mr. Hitesh Solanki, Scientist B (CS) and Mr. Pallab Pradhan, Scientist B (LS)

Mr. Subrahmanyam took interest in all the initiatives of the Centre and discussed their objectives, relevance, scope and reachout in detail. During the presentation, he made several suggestions on different activities, services, projects and schemes of the Centre. The Centre is taking appropriate actions to implement these suggestions.

Launching of "India Rankings 2016" under National Institutional Ranking Framework (NIRF)

"India Rankings 2016" using National Institutional Ranking Framework (NIRF), released by the Ministry of Human Resource Development, Government of India was launched by Smt. Smriti Zubin Irani, Hon'ble Minister of Human Resource Development, Government of India

on 4th April, 2016 at Vigyan Bhavan, New Delhi. The task of developing web portal for India Ranking 2016 was assigned to the INFLIBNET Centre. In addition, the Centre also provide data on publications and citations of the institutions who participated in the ranking exercise.

Launching of "ICSSR Data Service: Indian Social Science Data Repository"

"ICSSR Data Service: Indian Social Science Data Repository" was launched by Dr. T.C.A. Anant, Secretary and Chief Statistician of India, Ministry of Statistics and Programme Implementation (MoSPI), New Delhi at Indian Council of Social Science Research(ICSSR), New Delhi on 20th June, 2016. The online data service which is accessible at <http://www.icssrdataservice.in> was inaugurated. The ICSSR Data Service tools NSS and ASI datasets of Ministry of Statistics and Programme Implementation (MoSPI), New Delhi. The Information and Library Network (INFLIBNET) Centre, Gandhinagar

has been assigned the task of setting-up the data repository. On that occasion, Dr. Jagdish Arora, Director and Mr. Yatrik Patel, Scientist D (CS), INFLIBNET Centre delivered brief presentation on ICSSR Data Service. Prof. S.K. Thorat, Chairman, ICSSR released the docket containing brochure, pamphlets, user's guides and policy guidelines of ICSSR Data Service. Further, a memorandum of understanding (MoU) was signed in between INFLIBNET Centre and ICSSR, by Director, INFLIBNET Centre and Member Secretary, ICSSR to handover the NSS and ASI datasets to INFLIBNET Centre.

Article

Data Repositories in India with Specific Reference to "ICSSR Data Service: Indian Social Science Data Repository"

Pallab Pradhan, Scientist B (LS)

The raw research data / datasets used in the process of research analysis has immense inheritance value as like the research results itself. So, it is very evident and becoming very important to collect, store and manage such data / datasets properly for further reuse. In this regard, data repositories are becoming the trend setters in research data management and playing a great role for facilitating open access to data & promoting data sharing. Currently, hundreds of data repositories are available on the web covering a wide range of disciplines from around the world; and India is not an exception to it. The ICSSR Data Service has been initiated by ICSSR, New Delhi with aim to promote data sharing at a national level and to provide open access to social science research data / datasets hugely generated by various social science research institutes in the country. This article elaborates the current status of data repositories in the country, specifically the "ICSSR Data Service: Indian Social Science Data Repository". Further, it enumerates in details about ICSSR Data Service i.e. its objectives, development, current status, its features & functionalities, datasets, etc. Also, it explores the in-built online "ICSSR Data Analytics" and visualization tool developed using "R" language.

1. Introduction

Thanks to the "Open Access Movement", the scientific and academic world is witnessing a methodical move from subscription-based access to open access to scientific literatures. From last two decades, a growing and persistent demand is being made across the globe for free and open access to science and scientific research literatures. In perfect alignment to the open access movements, open data movement is getting momentum worldwide. The raw data / datasets associated with a research article possess a great value for reuse and further research. Data is the key to any scientific analysis of research as the research and its results solely depends on the quality and accuracy of data. Open data facilitates free availability, sharing and long-term use of data. According to National Data Sharing and Accessibility Policy (NDSAP, 2014), "A dataset is said to be open if anyone is free to use, reuse, and redistribute it – Open data shall be machine readable and it should also be easily accessible." Whereas, data sharing is nothing but the practice of making data available to be used for scholarly research to other investigators / researchers. Several funding agencies, institutions, and publishers are coming-up with their well-defined policies for open data and sharing to promote open data and data sharing amongst researchers.

Generally speaking, data repositories, institutional repositories, and self preservations are being used for storing, preserving, managing and sharing research data and research articles. Institutional repositories are mostly used for storing and sharing the institutional research output i.e. research papers, articles, and theses produced by its own academic community. Whereas, data repositories are used for storing the raw data / datasets that are generated during an experiment or are collected while carrying out a survey. Data repository generically refers to a central place where data is stored, managed and maintained, often for safety or preservation. It can be a place where multiple databases, datasets or files are located for preservation and distribution over a network that is directly accessible to the user. It may include requisite infrastructure often referred as data archives or data centres required for obtaining and depositing data to facilitate further sharing, analysis and reuse. Now-a-days, various data repositories are evolving at international and national level and Institutions to disciplines specific repositories to support the end users / researchers for reuse and advance research. The article elaborates on current scenario of data repositories in India with specific reference to ICSSR Data Service including its genesis, objectives, development, features & functionalities, available datasets, and its current status, etc. At the end, it

explores the in-built online ICSSR Data Analytics and visualization tool developed using “R” language.

2. Current Indian Scenario in Data Repositories

As per re3data.org, the registry of data repositories, there are 30 data repositories run by different institutions in India. (“<http://service.re3data.org/browse/by-country/>”) Some of the major Indian data repositories are:

2.1 Open Government Data (OGD) Platform India: The Government of India has committed itself for data sharing through a policy document entitled “The National Data Sharing and Accessibility Policy (NDSAP)” published in the Gazette of India in March 2012 with an aim to share non sensitive data available either in digital or analogue format that is generated using public funds by various ministries / departments / subordinate offices / organizations / agencies of Government of India as well as states. The NDSAP policy is designed to promote data sharing and enable access to Government of India owned data for national planning, development and awareness. Based on the NDSAP Policy, the flagship initiative “data.gov.in” of the Government of India was launched on the Open Data Government (OGD) platform in the year 2012 to act as single point access to all resources (datasets / apps) in open format published by various ministries / departments / organizations of Government of India. (<https://data.gov.in/>)

2.2 National Data Repository (NDR): In accordance to Petroleum and Natural Gas Amendment Rules 2006, the Directorate General of Hydrocarbons (DGH), a technical arm and nodal agency under Ministry of Petroleum and Natural Gas, Government of India has developed a National Data Repository (NDR) to preserve different kinds of data i.e. oil field data, cultural data, geological data, petro physical data, seismic data, well data, production data, reservoir data, and various unstructured data such as reports, documents, etc. It is hosted at Directorate General of Hydrocarbons (DGH), Noida, Sector - 73 , UP 201301, India. NDR is a fully Government of India owned integrated data repository of Exploration and Production (E&P) data of Indian sedimentary basins. NDR offers an unique platform to all E&P Operators, E&P Service Companies, E&P Investors, Academia to delve

inside diverse E&P datasets of Indian sedimentary basins. (<https://www.ndrdgh.gov.in/NDR/>)

2.3 KRISHI - Knowledge based Resources Information Systems Hub for Innovations in agriculture:

KRISHI is an initiative of Indian Council of Agricultural Research (ICAR) to bring its knowledge resources to all stakeholders at one place. The portal is being developed as a centralized data repository system of ICAR consisting of technology, data generated through experiments/ surveys/ observational studies, geo-spatial data, publications, learning resources etc. (<http://krishi.icar.gov.in/>)

2.4 ICRISAT Dataverse Network: ICRISAT’s data repository collects, preserves and facilitates access to the datasets produced by ICRISAT researchers to all users who are interested in. Currently, the data repository has 11 dataverses (datasets) comprising 75 studies and 549 files. (<http://dataverse.icrisat.org/>)

2.5 ICSSR Data Service: The “ICSSR Data Service” is culmination of signing of Memorandum of Understanding (MoU) between Indian Council of Social Science Research (ICSSR) and Ministry of Statistics and Programme Implementation (MoSPI). The MoU provides for setting up of “ICSSR Data Service: Social Science Data Repository” and host NSS and ASI datasets generated by MoSPI. The ICSSR Data Service includes social science and statistical datasets of various national level surveys on industries, employment and an employment, household consumer expenditure, enterprise, land holdings survey, census data, etc. into its repository. Currently, the data repository is hosted at Information and Library Network (INFLIBNET) Centre, Gandhinagar, Gujarat which was assigned the task of setting up the data repository. (<http://icssrdataservice.in/>)

The details about ICSSR Data Service is broadly discussed in detail in this article.

3. ICSSR Data Service

ICSSR Data Service is long term vision of Prof. Sukhdeo Thorat, Chairman, ICSSR, New Delhi. The ICSSR was established in 1969 with the specific objective of promoting socio-economic research in India. The Council is responsible for much of the funding to support and assist research activities with over 27 social science research

institutes and 6 regional centres being directly under its purview.

A research commissioned by the ICSSR found that 417 institutions across India are involved in doing social science research including over 230 universities, 51 Institutes of National Importance and numerous autonomous research institutes. All these institutes are generating huge amount of social science research data. Also, ministries like Ministry of Statistics and Programme Implementation (MoSPI), and Ministry of Home Affairs, Government of India are generating abundance of data of interest to the social scientists from national surveys like National Sample Survey (NSS), Annual Survey of Industries (ASI), and Census data respectively. But, making data available for research is an ongoing challenge in India, with open access an exception; Government departments are highly cautious to grant access to data; and private sector data, wherever accessible, is very expensive for researchers.

To overcome these issues and with a vision to promote and facilitate open access to social science research data in the country, Prof. Thorat met Dr. Matthew Woollard, Director, UK Data Service in 2013, and discussed a blueprint for development of Social Science data service in India. A road map and implementation plan for ICSSR Data Service was produced in 2014, outlining the proposed information architecture for the data repository, setting out key components for data acquisition, data pre-processing and analytics, metadata, software requirements and technology platforms; providing an excellent starting point for developing a data service for India. Senior representatives of the ICSSR and other organisations interested in implementation of the ICSSR Data Service visited the UK Data Archive at the University of Essex, a partner in the UK Data Service, in January 2015, for a two-day training workshop (Moody, 2016).

Later, a Joint Advisory Committee was constituted by the ICSSR with representatives from ICSSR, MoSPI, other key agencies and academic social science research centres / institutions across India for setting-up ICSSR Data Service and to guide the process development. The task for developing, hosting and maintaining the data repository along with all related activities was assigned to the Information and Library Network (INFLIBNET) Centre,

Gandhinagar as an ICSSR-sponsored project with initial funding from MoSPI and ICSSR. NADA, an open source software been used to built the data repository and customized extensively as per the requirements of social science researchers. The ICSSR Data Service was launched formally on 20th June, 2016 by Dr. T. C. A. Anant, Secretary and Chief Statistician of India, MoSPI at ICSSR, New Delhi.

Figure 1 is the screenshot of the “Home” page of ICSSR Data Service.



Figure 1: “Home” Page of ICSSR Data Service

3.1 Objectives

The first and foremost objective of this portal is to provide seamless and integrated access to a wide range of datasets generated by the MoSPI, New Delhi, social science institutions under direct purview of ICSSR and other Government organizations, to researchers who are looking for high quality social and economic research datasets with following aims and objectives.

- ☞ To serve as a national data service for promoting powerful research environment through sharing and reuse of data among social science community in India;
- ☞ To acquire, process, organize, preserve and host research data along with its metadata with ETL (extract, transform and load) facilities of raw data in social sciences and related domains collected from diverse sources for easy sharing and access;
- ☞ To facilitate online submission, access, search, browse, discovery, conversion, analysis and

- ☞ visualization of data through intuitive interfaces;
- ☞ To impart training and spread awareness about benefits of data sharing and reuse amongst social science research community in India; and
- ☞ Interact, cooperate and collaborate with other national and international data services and repositories for data and resource sharing and improved management of data services.

3.2 Stakeholders

Built on the basis of participatory approach, the ICSSR Data Service is a national-level social science data repository service set-up to facilitate data sharing and open access to social sciences data collected from various social science communities in the country. Any persons or institutions are welcome to contribute their secondary social science research data voluntarily or to use the data available data in the repository.

Major stakeholders of the ICSSR Data Service are:

- ☞ Ministry of Statistics and Programme Implementation (MoSPI) and its two organs, namely National Sample Survey Organization and Central Statistics Office (CSO);
- ☞ ICSSR: Indian Council of Social Science Research (ICSSR) and its 27 constituent research centres located across the country;
- ☞ Other ministries, Govt. Departments, and policymakers as users as well as contributors;
- ☞ Students, researchers and faculty as users as well contributors;
- ☞ Working professionals and NGOs as users as well as contributors;
- ☞ Universities and colleges as organizations that use and contribute to ICSSR Data Service and define policies on data generation and its delivery;
- ☞ Foreign Users: Students, research scholars, scientists, and faculty members from institutions abroad with which ICSSR has bilateral understandings / agreements on sharing of resources subject to the condition that similar facilities will be reciprocated by such institutions with respect to resources held by them; and

- ☞ Any others individual/independent researchers, government organizations, private firms, NGOs and any other institutions working on social sciences and related domains who wishes to deposit their data into the repository by complying to the data repository policies.

3.3 Current Status, Datasets and Access

Currently, ICSSR Data Service hosts 131 datasets (NSS and ASI datasets) provided by the MoSPI under the agreement in between the MOSPI and ICSSR. These datasets have been extracted, transformed and uploaded with details metadata into the repository. Also, the supporting documents, i.e. questionnaires, data collection methods, codebooks, and project summaries / descriptions, etc. are available on the repository along with their associated datasets. Further, it is proposed to expand the scope of ICSSR Data Service to include datasets from all social science institutions which are under direct purview of ICSSR, other social science research centres, NGOs and individuals researchers, others academic institutions as well as government agencies.

The ICSSR Data Service supports almost all preferred machine readable data formats for hosting into the repository. It mainly considers and accepts following kinds of datasets for inclusion in the repository:

- ☞ raw or preliminary data;
- ☞ data that are ready to use and ready for full release;
- ☞ unit level summary data; and
- ☞ tabulated, analyzed and derived data, etc.

The ICSSR Data Service employs DDI XML based descriptive metadata schema for assigning descriptive metadata to datasets deposited into the repository. Also, the ICSSR Data Service uses Humanities and Social Science Electronic Thesaurus (HASSET) developed by UK Data Service to assign keywords to the data / datasets which was granted to ICSSR Data Service under a licence in July 2015 by UK Data Service. All the datasets available in the ICSSR Data Service are categorized in eight categories / collections as defined by the MoSPI which are depicted in the Figure 2 given below.



Figure 2: Categorization / Collections of Datasets in ICSSR Data Service

All the datasets are available under “Microdata Catalog” in Central Data Catalog which is shown in the screenshot Figure 3 given below.



Figure 3: Display of Datasets in "Microdata Catalog"

Further, each dataset available in the repository is organized in following four tabs, i.e. i) Documentation, ii) Study Description, iii) Data Description, and iv) Get Microdata as depicted in below Figure 4 given below. Here, user can view / get details about the supporting documents, study, and data available in a specific dataset. User can get access or download the dataset in “Get Microdata” tab.

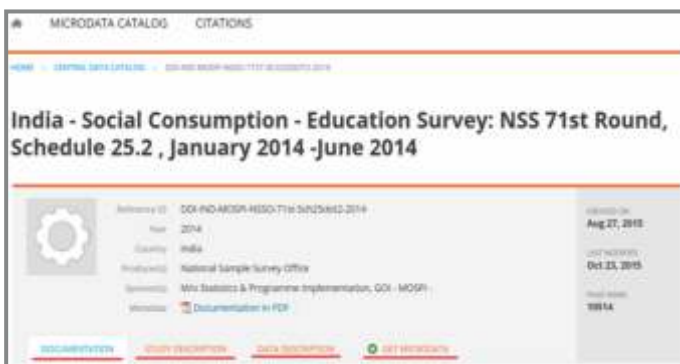


Figure 4: Organization of a Dataset in ICSSR Data Service

ICSSR Data Service follows a stringent process to accept or reject data / dataset before its submission. The data is internally reviewed and evaluated by the data experts from ICSSR Data Service on the basis of the eligibility of the depositor, relevance to the scope of the collections, valid data formats, etc. Further, the data goes for an internal data quality check to ensure that the proper quality standards are maintained, i.e. accuracy, consistency, documentation, metadata, free from any sort of legal issues, privacy of individuals are maintained and does not compromise with the national security.

All the datasets, metadata information and their supporting materials available in the ICSSR Data Service can be searched, viewed, accessed and used freely for further study, teaching and research. The available datasets in the ICSSR Data Service are not for profit making use. In few circumstances, access to some specific data may be restricted. Basically, three types of

access restrictions or access control mechanism are used on the datasets:

- ☞ Open Data: Access to open data which generally means data generated from public funding and meant for public should be freely available in open access without any access restrictions.
- ☞ Safeguarded Data: Data can be access only to the registered users with proper registration and authorization by the ICSSR Data Service. The user agree to the terms and conditions of data usage policy displayed to them at the time of request.
- ☞ Controlled Data: Access to these kinds of data would be controlled through Secured Lab, stored in a secured server. Sensitive and highly confidential data, as declared by Government of India policies will be accessible only through this mode.

3.4 Features and Functionalities

As mentioned before, the data repository of ICSSR Data Service is built on NADA, an open source software platform. The ICSSR Data Service offers following features and functionalities:

- ☞ Supports search and discovery through elaborate metadata description of each datasets using Data Documentation Initiative (DDI) Metadata Standard (DDI-MS);
- ☞ Provides raw as well as transformed data in multiple formats;

- ☞ Provides options for online analysis through inbuilt data analytical tool by choosing multiple variables;
- ☞ Generates cross tabulation for various datasets;
- ☞ Provides for data visualization through bar charts, line and scatter diagrams, pie charts, stacked charts, histogram, etc;
- ☞ Supports multiple output formats such as CSV, TSV, PDF, EXCEL, DTA, SAV, etc;
- ☞ Multiple search and browse options; and
- ☞ Visualization of geo coded data on maps available online.

3.5 Data Analysis and Exploration: "Explore Online" and "ICSSR Data Analytic Tool"

Two options namely "Explore Online" and "ICSSR Data Analytic Tool" are in-built in ICSSR Data Service to facilitate exploration, analysis and visualization of dataset.

3.5.1 Explore Online: User can explore a dataset online through "Explore Online" option or can analyse and visualize the data using "ICSSR Data Analytic Tool". Figure 5 given below shows the above mentioned two options alongside a dataset for example.

- ☞ Controlled Data: Access to these kinds of data would be controlled through Secured Lab, stored in a secured server. Sensitive and highly confidential data, as declared by Government of India policies will be accessible only through this mode.



Figure 5: Display of "Explore Online" and "ICSSR Data Analytic Tool" Options

In "Explore Online", user can visualize the results as charts and tables as shown below in Figure 6 to 8 as examples. Further, user have the option to select pre-

derived and pre-selected data from the drop-down menu / list available to generate charts and tables

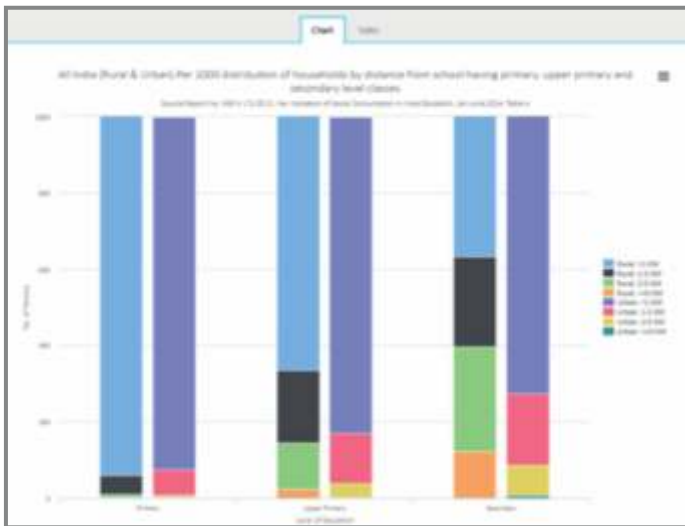
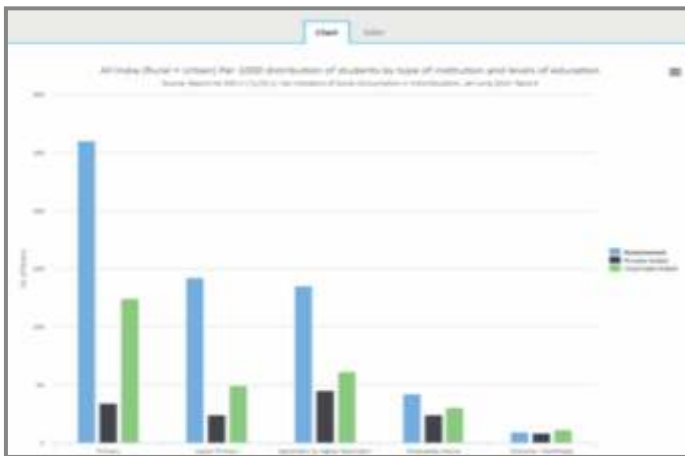


Figure 6 and 7: Display of Charts

Rural				
Level of Education	<10K	1-10K	15-20K	>10K
Primary	90	40	9	1
Upper Primary	40	20	11	24
Secondary	37	24	25	10

Urban				
Level of Education	<10K	1-10K	15-20K	>10K
Primary	90	40	9	1
Upper Primary	40	20	11	24
Secondary	37	24	25	10

Figure 8: Display of Table

3.5.2 ICSSR Data Analytic Tool: The ICSSR Data Analytic Tool was developed in "R" language for advance analysis and visualization of datasets available in the ICSSR Data Service. Figure 9 given below is the screenshot of the dashboard of ICSSR Data Analytic Tool (beta).

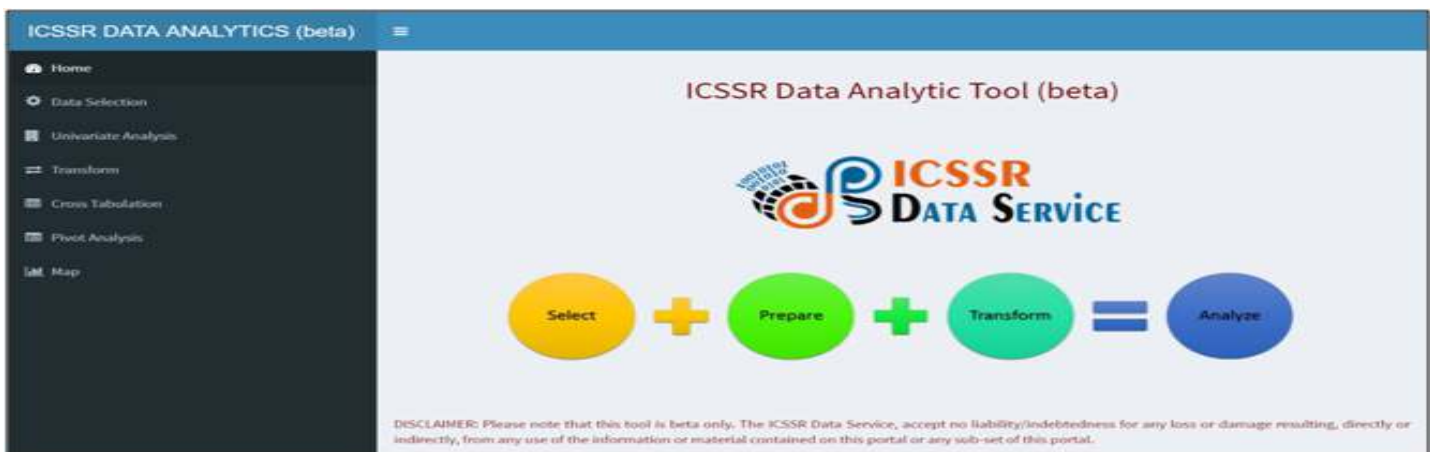


Figure 9: Dashboard of ICSSR Data Analytic Tool (beta)

User can perform a number of analyses by using ICSSR Data Analytics such as: univariate analysis, data transformation, cross tabulation, pivot analysis and for generation of various maps and charts, etc. To perform

any analysis in the data analytic tool, user has to first select the required data tables, variables, and base table by clicking the "Data Selection" tab available on the dashboard as shown in Figure 10.

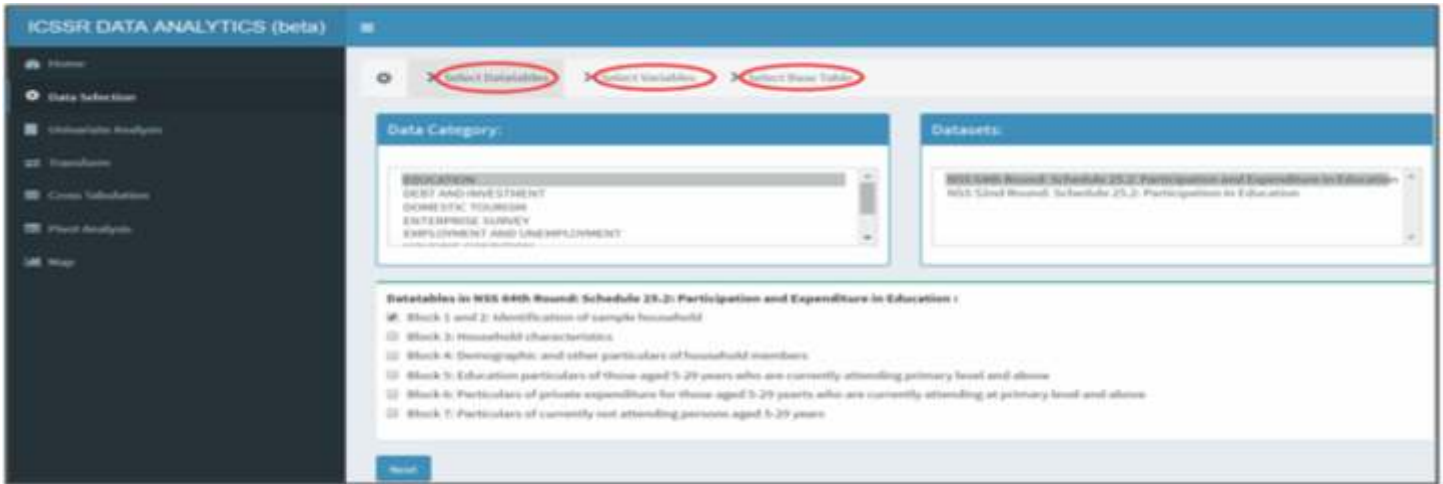


Figure 10: "Data Selection" Tab on the Dashboard of ICSSR Data Analytics

Selection of data tables and variables is shown in below in Figure 11 and 12 as examples. Subsequently, the result of univariate analysis from selected data tables and variables

is depicted in given bar chart below and pie chart as shown in Figure 13 and 14 respectively.

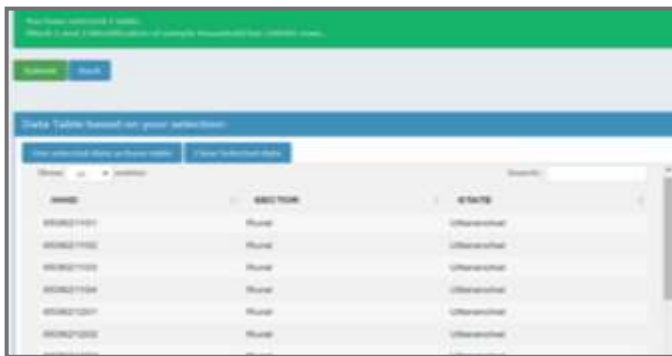


Figure 11: Selection of "Datatables"



Figure 12: Selection of "Variables"



Figure 13: Univariate Analysis Result as Bar Chart

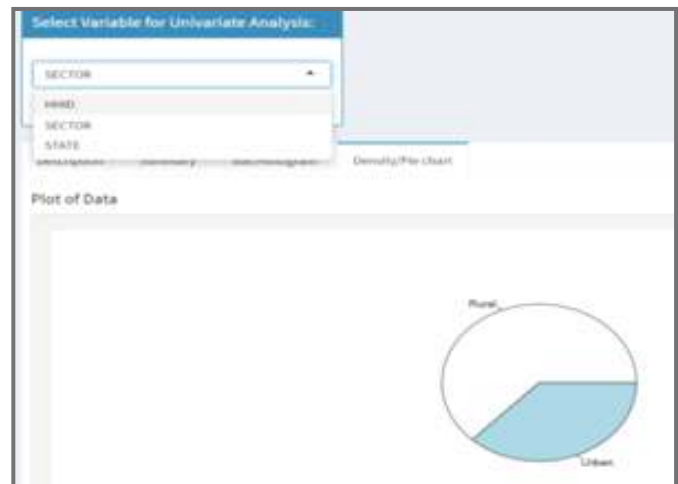


Figure 14: Univariate Analysis Result as Pie Chart

Further, from the pre-selected data tables and variables, pivot analysis has been performed in ICSSR Data Analytics. Results are depicted as fire table, area chart and

stacked bar chart which are shown below in Figure 15, 16 and 17 respectively.

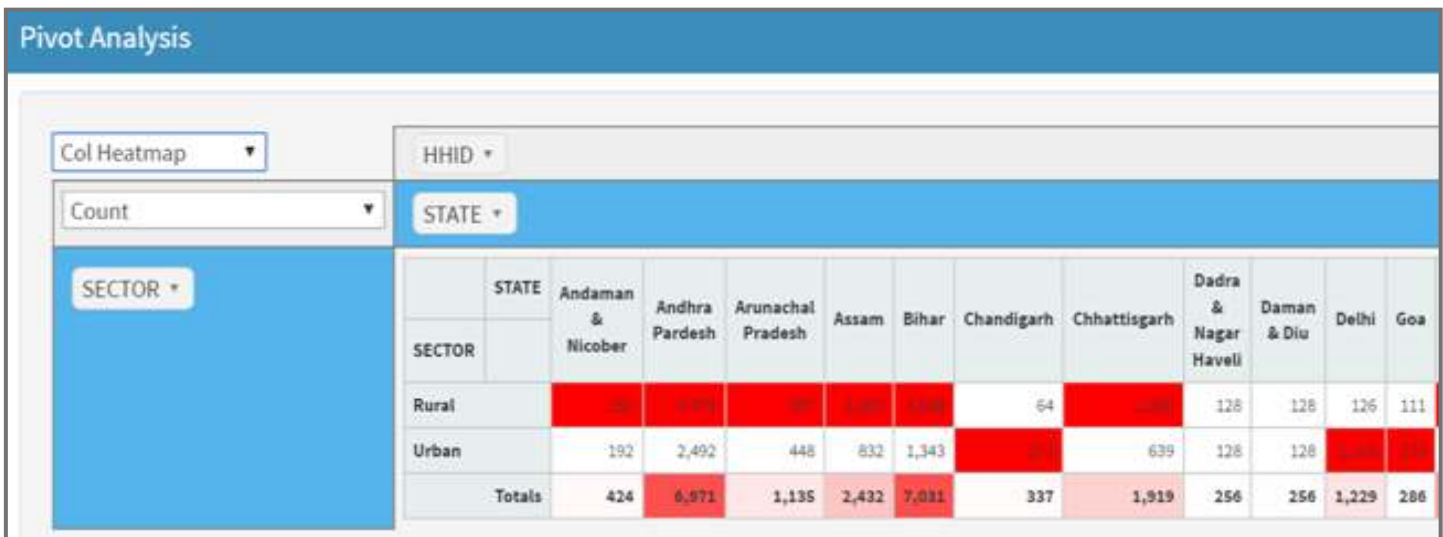


Figure 15: Pivot Analysis Result as "Fire Table"

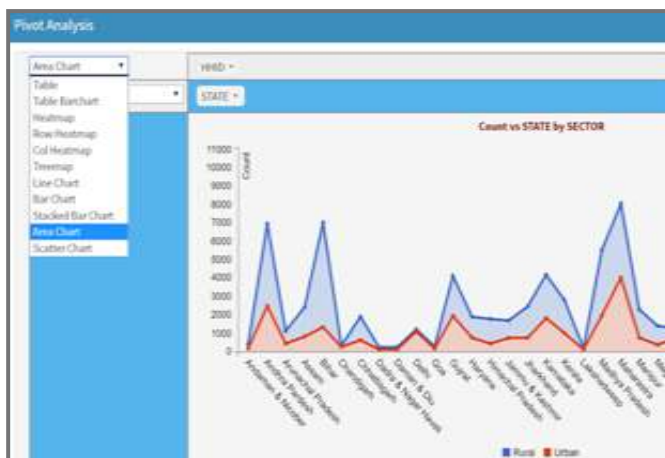


Figure 16: Pivot Analysis Result as Area Chart



Figure 17: Pivot Analysis Result as Stacked Bar Chart

Similar to the examples given above, user can perform a number of analyses and visualize its results in different formats and types of tables, charts, etc. using ICSSR Data Analytic Tool.

4. Conclusion

The ICSSR Data Service is one of the foremost and an emerging social science data repository in India. It is a great endeavour by ICSSR to share social science research data collected or developed through public funding from various government agencies, institutions and social science research centres. As a policy, the ICSSR Data Service promotes data sharing to encourage reuse of data and provide information on developing and generating social science research data and its management.

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- v. <http://krishi.icar.gov.in/>
- vi. <https://www.ndrdgh.gov.in/NDR/>

Visitors

Mr. R Subrahmanyam, Additional Secretary, MHRD
Prof. H Devaraj, Vice Chairman, UGC
Dr. (Mrs) Pankaj Mittal, Additional Secretary, UGC
Prof. Uma Kanjilal, DLIS, IGNOU
Mr. Pradeep Kaul, Senior Consultant, NME-ICT, MHRD
Prof. K S Raghavan, Retired Professor DRTC, Bangalore
Dr. Usha Munshi, Librarian, IIPA, Delhi
Dr. G. K. Manjunath, Chief Librarian, IGIDR, Mumbai
Prof. I K Ravichandra Rao, Professor, PES Institute of Technology
Ms. Tahseen Afroz, Scopus
Mr. Abhishek Kohli, Thomson Reuters
Mr. Mandar Manohar Gosavi , Indian Citation Index

Staff Achievement

Mr. Harish Chandra, Administrative Officer
INFLIBNET Centre congratulates Mr. Harish Chandra, Administrative Officer for winning the first prize in masters "Thrill Zone Run 2016" organized by Thrill Zone on 03rd April 2016 at Jawahar Lal Nehru Stadium, Delhi. He is winner of the veteran category men (above

45 years of age) with the timing of 42 minutes 04 secs of 10 Km. Centre takes pride in encouraging him to bring more laurels to the Centre. The Centre wishes him all the best in future events at national and international levels.

Users' speak

On Shodhganga

'Shodhganga is an excellent effort as it helps researchers to find out what work has been done on the theme of their interest. I find it very useful and regularly keep checking the work done by various scholars across India.' By Vishva Chandel

On N-LIST

'I am an active user of this wonderful program. It has helped me gain access to anything that I could ever need for my academic studies. I would like to thank all of you amazing people who made this possible. Please keep up the good work!' by Ishita Sareen, Hans Raj College, University of Delhi.

Staff News

Dr. Jagdish Arora, Director

Dr. Jagdish Arora was nominated as a Member of the Expert Committee, National Institutional Ranking Framework (NIRF) for the years 2016 and 2017. He is also Member of the Advisory Committee of ICSSR for Setting up Data Centre in ICSSR, New Delhi.

Dr. Jagdish Arora delivered an invited talk on "ICSSR Data Service: Social Science Data Repository", during the EQUIP Academic Symposium on Digital Archives and Databases as a Source of Mutual Knowledge, held on 5th and 6th May, 2016 in Rome, Italy. He delivered keynote address on "Changing Role of Libraries in Google Era" during the International Conference on "From Ownership to Access: Leveraging the Digital Paradigm" held on 19th and 20th May 2016 at Ambedkar University Delhi, Kashmere Gate, Delhi. He was invited to make a presentation on "Activities and Services of INFLIBNET Centre" during the DST-Interaction Meet on Development of Database of Indian / NRIs Ph. D Degree Holders, held on 5th April, 2016 at Technology Bhawan, New Delhi.

As member of the Project Review and Steering Group (PRSG) of the National Digital Library, he attended its 3rd Meeting held on 10th June, 2016 at the IIT Kharagpur Extension Centre and Guest House at Kolkata. As a member of the Standing Committee, e-PG Pathshala, he attended its 24th Meeting held on 26th April, 2016 in the UGC Main Office, New Delhi. As a member of the Sub-Committee of the Standing Committee, e-PG Pathshala, he attended its 24th and 25th Meeting held on 11th April and 13th June, 2016 respectively in the UGC Main Office, New Delhi. As the Principal Investigator of the project, he attended the launching ceremony of ICSSR Data Service launched at ICSSR, New Delhi on 20th June, 2016.

Mr. Manoj Kumar K, Scientist D (CS)

Mr. Manoj Kumar was invited to deliver a lecture on "Plagiarism Issues in a University and Solution" to the faculty members of JK Lakshmi Pat University, Jaipur on 9th May 2016. He was Invited to deliver a lecture on "Academic honesty while conducting research:

Shodhganga and Anti-plagiarism Tools" at Pandit Deendayal Petroleum University, Gandhinagar on 12th May 2016. He was also invited to deliver a lecture on "Recent Trends & Technologies in Education, Indian These Repository for Research and plagiarism detection under Shodhganga" during U.G.C. sponsored Refresher Course In Innovative Research Possibility on 10th June, 2016 at Gujarat University, Ahmedabad.

Mr. Abhishek Kumar, Scientist C (CS)

Mr. Abhishek Kumar attended the Meeting of subcommittee, e-PG Pathshala held on 11th April, 2016 & 13th June, 2016 and Standing Committee, e-PG Pathshala held on 26th April, 2016 at University of Grants Commission, New Delhi. He also attended meeting of FSSAI for e-Learning Portal on Food Safety and Authority FDA, Delhi. He also attended Meeting of the Implementation Core Committee of the National Institute of Ranking Framework (NIRF) held on 23rd May, 2016 at National Board of Accreditation, New Delhi. He was invited to deliver a lecture on 'e-Learning & MOOC on 28th May, 2016 at HRD College, Hyderabad.

Mr. Kannan P., Scientist C (LS)

Mr Kannan P was invited by Future of Research Communication and e-Scholarship (FORCE11), a non-profit organization to attend an International Annual Conference called FORCE11 2016 during 16th to 19th April, 2016 at Portland, USA. Apart from the conference, He visited the New York Public Library, New York and Princeton University Library, New Jersey during his visit to USA. He was invited to deliver a lecture on "ORCID: e-learning resources" during Research Orientation Programme organized by Nirma University on 8th June, 2016 at Nirma University, Ahmedabad.

Mr. Divyakant Veghela, Scientist B (CS)

Mr. Divyakant visited Indian Council of Social Science Research (ICSSR), New Delhi to attend the launching ceremony of "ICSSR Data Service: Indian Social Science Data Repository" on 20th June, 2016.

Mr. Swapnil Patel, Scientist B (CS)

Mr. Swapnil attended the launching programme of “India Rankings 2016” under National Institutional Ranking Framework (NIRF), Ministry of Human Resource Development, Government of India on 04th April, 2016 at Vigyan Bhavan, New Delhi.

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

Ms. Kruti attended the launching programme of “India Rankings 2016” under National Institutional Ranking Framework (NIRF), Ministry of Human Resource Development, Government of India on 04th April, 2016 at Vigyan Bhavan, New Delhi.

Mr. Mitesh Pandya, Scientist B (LS)

Mr. Mitesh visited Indian Council of Social Science Research (ICCSR), New Delhi to attend the launching ceremony of “ICSSR Data Service: Indian Social Science Data Repository” launched on 20th June, 2016.

Mr. Hiteshkumar Solanki, Scientist B (CS)

Mr. Hiteshkumar attended the launching programme of “India Rankings 2016” under National Institutional Ranking Framework (NIRF), Ministry of Human Resource Development, Government of India on 04th April, 2016 at Vigyan Bhavan, New Delhi. He visited Indian Council of Social Science Research (ICCSR), New Delhi to attend the launching ceremony of “ICSSR Data Service: Indian Social Science Data Repository” launched on 20th June, 2016.

Mr. Pallab Pradhan, Scientist-B (LS)

Mr. Pallab attended the launching programme of “India Rankings 2016” under National Institutional Ranking Framework (NIRF), Ministry of Human Resource Development, Government of India on 04th April, 2016 at Vigyan Bhavan, New Delhi. He also visited Indian Council of Social Science Research (ICCSR), New Delhi to attend the launching ceremony of “ICSSR Data Service: Indian Social Science Data Repository” launched on 20th June, 2016.

Mr. Raja V., Scientist B (CS)

Mr. Raja attended the launching programme of “India Rankings 2016” under National Institutional Ranking Framework (NIRF), Ministry of Human Resource Development, Government of India on 4th April, 2016 at Vigyan Bhavan, New Delhi.

Mr. Dharmesh Shah, STA (CS)

Mr. Dharmesh attended the launching programme of “India Rankings 2016” under National Institutional Ranking Framework (NIRF), Ministry of Human Resource Development, Government of India on 4th April, 2016 at Vigyan Bhavan, New Delhi. He attended meeting regarding conversion of manual cases to DBT mode for the students who are presently being paid manually through universities at the University Grants Commission, Head Office, New Delhi from 25th to 26th May, 2016.





Information and Library Network Centre

(An Autonomous Inter-University Centre of UGC)

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