



INFLIBNET

Newsletter



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**Assessing and Evaluating
Research
Performance of an Institution
using Bibliometric Indicators**

Jagdish Arora and Kruti Trivedi

Editorial Board

Dr. Jagdish Arora

SOUL Helpline

Tel. : 079 - 26300007

N-LIST (E-resources for College)

<http://nlist.inflibnet.ac.in>

INFLIBNET Blog

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

INFLIBNET Forum

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

INFLIBNET Wiki

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

INFLIBNET Chat

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

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Staff and LIS Fraternity once again welcomes
Dr Jagdish Arora
who Joined as Director, INFLIBNET Centre
for the second term of five years
beginning August 31st, 2012.



From the Director's Desk

I am grateful to the Chairman, UGC for giving me an opportunity to serve the INFLIBNET Centre as its Director for the second consecutive term of five years. The Centre has performed exceedingly well in past five years under able guidance of Prof. S K Khanna, Chairman, Governing Board, Prof. S K Thorat (2006-2011) and Prof. Ved Prakash, President, Governing Council and Chairmen, UGC. The UGC and its key functionaries extended their full support to all our existing projects and new initiatives with liberal finances, resources and manpower as and when required. Moreover, the Centre was given a number of opportunities to prove its mantle with additional roles and responsibilities. I would take this opportunity to acknowledge the team efforts put-in by the INFLIBNET scientists and staff for executing the projects and programmes entrusted to them most effectively and efficiently. I am sure that the help, support and guidance that we have received from the UGC during the past five years would continue. I would also request my colleagues at the INFLIBNET Centre as well as to the entire LIS community for their continuing support to take this esteemed institution to newer heights.

The 2nd and 3rd (Volume No. 19) of INFLIBNET Newsletter is a reflection of multifarious activities that the Centre is involved with. I am happy to inform you that the Centre has been given the responsibility to coordinate technical and administrative activities of e-PG Pathshala, a project assigned to the UGC by the Ministry of Human Resource Development under its National Mission on Education through ICT (NME-ICT). The project envisages developing e-content in 77 subjects using four quadrant approach propounded by the NME-ICT. Moreover, the Centre has also been given the responsibility to coordinate the activity of content creation in the field of Library and Information Science. The Project is progressing well. A National Workshop for all Subject Coordinators and National Coordinators of e-PG Pathshala was organised in the month of August 2012 followed by meetings of the subject coordinators, papers coordinators and content creators in different subjects in the following months of September and October. A number of modules developed under the Project are already available through e-PG Pathshala Learning Management System hosted at the INFLIBNET Centre (<http://www.inflibnet.ac.in/epgp/>).

The Academic Job Portal for NET, SET and Ph.D-qualified candidates, set-up by the INFLIBNET Centre for the UGC, is doing very well. More than 7,500 eligible candidates have registered themselves on to the portal and have creating their profiles within a short period of two months. Moreover, universities and other institutions of higher learning have started uploading their job vacancies on to the portal.

I am happy to report that the INFLIBNET Centre has signed MoUs on Shodhganga with more than 85 universities and on library automation with 23 universities. The UGC, on recommendation of the INFLIBNET Centre and Committees appointed for these purposes, has allocated funds to universities as well as to the INFLIBNET Centre as per the details given below :

- i) 39 eligible universities, signatory to the MoU on Shodhganga with INFLIBNET Centre, have been allocated funds for the digitization of backfiles of theses as well as for setting-up of an ETD Laboratory. The Shodhganga repository now hosts more than 4,100 Ph.D. theses.

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- ii) 23 universities, signatory to the MoU on Library Automation with INFLIBNET Centre, were allocated funds for retro-conversion of bibliographic records of documents available in their libraries as well as for purchase of hardware including servers and PCs.
- iii) INFLIBNET Centre was allocated funds for purchase of hardware and recruitment of contractual manpower for Shodhganga as well as for subscription to an anti-plagiarism software for universities.

An induction programme was organised for librarians / their representatives at the INFLIBNET Centre wherein the participants were reminded of their roles and responsibilities for contributing bibliographic records of their respective libraries to the IndCat, the INFLIBNET's Union catalogue. Presentations were made by the INFLIBNET's scientists on library automation, data conversion, bibliographic standards, and Online Copy Catalogue System, etc. The Centre would also be organizing a workshop for representatives of universities that have signed MoU with the INFLIBNET Centre on Shodhganga to evolve guidelines for digitisation of theses and dissertations, for uploading theses into Shodhganga and for setting up ETD laboratory in their respective universities.

The Centre's services, activities and achievements have caught the attention of the Ministry of Human Resource Development as well as that of Human Resource Minister. The Director, INFLIBNET Centre was requested to make a presentation on the activities and services of the INFLIBNET Centre to Shri Kapil Sibal, Hon'ble Minister of Human Resource Development on 1st July 2012. The Minister and other high officials, after viewing the presentation put their appreciation on records for the efforts put in by the Centre. Consequent to the presentation made by the Director, the Ministry set-up a Committee to consolidate and expand consortia initiative for all institutions of higher learning. I would like to make a special mention about the N-LIST programme that was selected for presentation to the Apex Body of NME-ICT chaired by Shri Kapil Sibal, Hon'ble Minister for Human Resource Development. The Minister desired that the programme may further be extended to all colleges including medical, technical, agriculture, pharmacy and other institutions with inclusion of requisite resources required by these institutions.

The INFLIBNET Centre, collaborated with JSTOR, one of the important resources being subscribed under the UGC-Infonet Digital Library Consortium, to organize JSTOR User's Forum, one in Delhi and other in Bangalore on 4th and 6th September 2012 respectively. The programmes were highly successful and were well attended by a large number of Librarians and users both in Delhi and Bangalore. I am happy to inform to the user community that the JSTOR would also be included in the N-LIST Programme and member colleges would have access to JSTOR through N-LIST Programme very shortly.

Human Resource Development and SOUL Software are two flagship programmes of the Centre. Three training programmes were organised on SOUL 2.0 at the INFLIBNET Centre for librarians and computer professionals and seven user awareness programmes were organised for universities and colleges on e-resources being offered under the UGC-Infonet Digital Library Consortium and N-LIST Programme during the period under report. The Centre also collaborated with Jawaharlal Nehru University for organising a 5- day Workshop on setting-up of Institutional Repository using D-Space from 23rd to 27th July 2012. A National Workshop of Intellectual Property Rights and Copyright was organised in collaboration with Mizoram University, Aizwal from 27 and 28th August, 2012.

This issue of the Newsletter features a special article entitled "Assessing and Evaluating Research Performance of an Institution using Bibliometric Indicators". The article elaborates on bibliometric indicators that can be used to evaluate performance of universities and other institutions of higher education. I am sure that the user would find the article interesting and informative.



(Jagdish Arora)

INFLIBNET Regional Training Programme on Library Automation (IRTPLA)

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, Mizoram, delivered the welcome address. Prof. Pravakar Rath, Head of the Dept. of Library and Information Science, Mizoram University, Aizawl, was invited to deliver the key note address. In his address, Prof. Rath mentioned importance of developing the skills and competencies of the college librarians in the fields of library automation,

networking, Internet, website development, digital library and content management. He mentioned that the INFLIBNET Centre has a special provision for providing SOUL software and N-LIST facilities to colleges located in the north eastern region completely free of cost. He said that the library professionals working in the North-eastern region should make use of the INFLIBNET facilities and services and try to implement the same in their respective libraries. 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.



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

Training Programme on SOUL 2.0 at the INFLIBNET Centre

The INFLIBNET Centre regularly conducts SOUL 2.0 Training Programme to impart training on installation and operation of SOUL software for its users. The five-day programmes organized at the INFLIBNET Centre are as follows. The Programmes were coordinated by Shri H G Hosamani, Scientist C (LS), INFLIBNET Centre. 67 Participants attended these training programmes during the period.

Sr.	Name of the Programme	Date of the Programme	No. of participants
1	102nd Training Programme on SOUL 2.0	May, 07- 11 , 2012	22
2	103rd Training Programme on SOUL 2.0	July, 09-13, 2012	24
3	104th Training Programme on SOUL 2.0	September, 10-14, 2012	21



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*Participants of 102nd
Training Programme on SOUL 2.0 with
the Director and Technical Staff of the
INFLIBNET Centre*



▶
*Participants of 103rd
Training Programme on SOUL 2.0 with
the Director and Technical Staff of the
INFLIBNET Centre*



◀
*Participants of 104th
Training Programme on SOUL 2.0 with
the Director and Technical Staff of the
INFLIBNET Centre*

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

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

The User Awareness programme for E-resources offered to the Central University of Punjab through UGC INFONET Digital Library Consortium was conducted on 19th May 2012 at Central University of Punjab Campus, 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 spoke about new initiatives taken by Centre including Science Direct and Wiley-Blackwell under the Consortium offering. Dr. R K Chadha, 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.

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,



Professor and Library Advisor and Dr. C. T. Kamaseshi, University Librarian, University of Mysore and Shri Manoj Kumar K. Scientist D (CS), INFLIBNET Centre

INFLIBNET Centre, Ahmedabad inaugurated the programme. Dr. Arora gave a brief account of the activities of INFLIBNET Center and e-resources available for the benefit of students, research scholars and the faculty 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. In his address, he mentioned that the successful and the popular initiative of UGC-INFONET facilitates access to more than 7,500

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. V.G. Talawar, Vice-Chancellor, University of Mysore 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 110 faculty members and research scholars attended the programme apart from 20 professional librarians and 15 administrative staff including Deans of faculties.

The University of Mysore signed MoU on Shodhganga with INFLIBNET Centre on 8th June 2012. The MoU was signed by Prof. P. S. Naik, Registrar, University of Mysore and Dr. Jagdish Arora, Director, INFLIBNET Centre on behalf of their respective institutions. Shri Manoj Kumar, Scientist D (CS), INFLIBNET Centre gave a detailed account of Shodhganga Project and step-by-step procedure to upload theses by research scholars themselves into the repository during the Programme.

User Awareness Programme on National Library and Information Services Infrastructure for Scholarly Content (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 Mr B Shaik Usman, Librarian, Islamiah College. Janab Ghani Md. Jaweed Sahib, Secretary & Correspondent, Islamiah College, Vaniambadi delivered 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. Mr P Kannan, Scientist B (LS), resource person from INFLIBNET Centre, delivered lecture on INFLIBNET

activities and services including N-LIST resources to scholarly community. 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. Mr B Shaik Usman delivered formal vote of thanks.

User Awareness Program on E- Resources Subscribed under N-LIST, St. Ann's College for Women, Hyderabad, 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 and Hyderabad in collaboration with INFLIBNET Centre, Ahmedabad on 18th July, 2012, with an aim to create awareness of N-LIST among stakeholders of collegiate education under Osmania University. 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 AP addressed the participants and invitees. 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



Dr. Sr. K. Anthony Mary, Principal, St. Ann's College for Women, Prof E. Rama Reddy, University of Hyderabad, Prof Laxman Rao, DLIS, Osmania University, St. Ann's College for Women, Prof E. Rama Reddy, University of Hyderabad, Prof Laxman Rao, DLIS, Osmania University, Mr. Laxma Reddy, Regional coordinator, INFLIBNET Centre, Dr. R. David Kumar, Special Officer-Academic & IT, Commissioner of Collegiate Education, Govt. of AP on the dais during the User Awareness Programme on E- Resources subscribed under N-LIST

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, LAN, Internet and reprographic facilities. Moreover, their library is opened to the neighborhood particularly for the women and senior citizens, and the alumni. Mr. Lakshma Reddy, Regional Coordinator and Mr. T. Venkata Ravi Kiran, Soul Technical Assistant from INFLIBNET Centre were the resource person for the programme. Dr. E. Rama Reddy, Retd Professor, LIS, Univ of Hyderabad and Visiting Professor, School of ICMT, Faculty of Informatics, 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. Around 100 participants from various colleges, in and around the city, attended the programme. The participants expressed the need for such awareness programmes on e-resources so that they are updated on the progress in the field. The delegates thanked the INFLIBNET Centre for providing access to N-LIST e-resources, and for offering awareness programme



Dr. Jagdish Arora, Director along with Shri Manoj Kumar K. Scientist D (CS), INFLIBNET Centre, Smt. L. Saraswathy, Deputy Librarian-in-charge, Kerala University, Prof A Jayakrishnan, Vice chancellor, Dr. Mohanakumar, Assistant Librarian, Kerala University on the dais during the Signing of MoU on Shodhganga and Awareness Programme on e-Resources subscribed under UGC INFONET Digital Library Consortium

and students of various teaching departments of the University attended the programme.

The Kerala University signed MoU with INFLIBNET Centre on Shodhganga on 20th July, 2012. Shri P. Raghavan, Registrar, Kerala University and Dr Jagdish Arora, Director, INFLIBNET Centre signed the MoU on behalf of their respective institutions. Prof A Jayakrishnan, Vice Chancellor and Dr. Jagdish Arora exchanged the Memoranda of Understanding.

User Awareness Programme on E-resources subscribed under the UGC-INFONET Digital Library Consortium and Signing of MoU on Shodhganga, 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 the 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), INFLIBNET Centre explained briefly about Shodhganga and gave detailed account of e-resources available through the UGC INFONET Digital Library Consortium to the University. Dr. P K Suresh Kumar, Assistant Librarian, Kerala University extended a vote of thanks to the university authorities, INFLIBNET Centre, participants and faculty. 178 participants including faculty members, librarians, research scholars

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. Mr. A. S. Sonone, INFLIBNET Regional SOUL Coordinator and Mr. Amrutesh Agarwal Technical Assistant conducted the session. Mr. A. S. Sonone gave a demonstration on



Dr. P. S. G. Kumar, former UGC Emeritus Fellow and Former Head, Department of Library and Information Science, Former University Librarian, Nagpur University, Dr. Lata Deshmukh, Vice Principal, Dr. Shalini Lihitkar, Mrs. Naina Peters, Librarian and Ms. Clara Bastian, Asstt. Librarian, Hislop College, Nagpur on the dias during the Awareness Programme on E-resources Subscribed under the N-LIST project

N-LIST programme. More than 50 participants attended the programme. Participants and research scholars expressed their views about the programme. The participants were asked various questions about availability of e-resources, accessibility, use and preconditions of the N-LIST Project. The technical sessions were followed by the distribution of certificates of participation and ended with the vote of thanks proposed by Mr. John Landge.



User Awareness Program on E-resources subscribed under the UGC-INFONET Digital Library Consortium & N-LIST, University of Delhi, South Campus, 27th-28th Sept. 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 on 27th and 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 onus about it is required to be developed. Dr. P. R. Goswami, Director, National Social Science



Participants of the Awareness programme on e-resources subscribed under UGC INFONET Digital Library Consortium and N-LIST Project

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 have been 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. A formal welcome address was given by Dr. Vikas Gupta, Deputy Registrar, University of Delhi South Campus (UDSC). He emphasized on the need for such programmes to derive maximum benefits from the available resources. He 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.

Technical Sessions

The core agenda of the programme was set in motion by Mr. Ashok Rai, Scientist D (CS), INFLIBNET Centre, 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

Panel Discussion on “Print to Electronic: Changes, Challenges & Strategies”

Panel Discussion was chaired by Professor Sanjay Kapoor, Department of Plant Molecular Biology, UDSC. The panelists were: Mr. Kailash Balani (M.D. Balani Infotech), representing publisher, Dr. Sanjeev Singh, an ICT expert and Mr. Saleem Anwar, a library expert. The panel discussion started with the key remark made by Prof. Kapoor enlisting the core areas for discussions including faster access, better search capabilities, better ICT inability, availability of more content, robustness of search engines, database organization and design as per users' need, requirement of research and requirements of publishing in e-environment.

Shri Kailash Balani described the transition from print to electronic and virtual form of information needs of users and its acceptance by libraries and communities at large. He said that publishers in India are operating at a little margin which is compensated by the volume in Indian market. Publishers offer their product on trial basis for 3 to 6 months. He justified the marginal percentage increase in cost of subscription on annual basis. Dr. Sanjeev Singh talked about cloud computing for seamless access of content. According to him, libraries require sound ICT infrastructure and support to devise and deliver their key services. He threw light on development of open coursewares under creative commons license. He stressed that there is also a need for producing quality content while checking plagiarism through software such as Turn-It-In etc.

The last panelist, Shri Saleem Anwar spoke on the shift that has happened in journals' subscription model. He talked about purchase procedures, negotiation strategy, financial rules & regulation, restrictive terms of access, annual price cap, etc. with respect to e-journals databases acquisitions. The panel was summed up with a recommendation that

“Librarians and users together should rationalize and justify purchase of resources and their usage”.

The proceedings on the second day started with a presentation by Shri Rajesh Singh, Deputy Librarian, Central Reference Library, University of Delhi on “Online Search Techniques”. He covered the topic very comprehensively via-a-vis databases subscribed by DULS under UGC-Infonet Digital Library Consortium. He dwelt deep into availability of abundant free web resources and subscribed databases. He also covered Scopus database and deliberated upon its unique features of citation analysis and evaluation of researchers'/authors' profile.

The next session consisted of presentation from publishers and their representatives on e-resources. The presentations were made by Elsevier Science on Science Direct, Web of Science on citation indices, GIST-find, Infomatics India on JCCC, M/s. Balani Infotech on Project Muse, ACS and SIAM, Sci-Finder, Wiley Blackwell and Oxford Journals.

The last presentation of the two days awareness programme was delivered by Dr. S.C. Jindal, Deputy Librarian & In charge, Central Science Library, University of Delhi, on “Orientation to DULS subscribed e-resources both individually and through the consortia”. The presentation covered description of many useful free web resources as well as search engines in open domain.

Valedictory Session

The valedictory session was chaired by Prof. Indranil Dasgupta, Dean, Faculty of Inter-Disciplinary & Allied Sciences, UDSC. Prof. Dasgupta, in his closing remark, said that availability of e-resources has made a remarkable impact on teaching-learning and research activities which is a very welcome development. Earlier, the imperative was to publish or perish which has now become patent or perish.

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.

MoU signed with Universities for Shodhganga and User Awareness Programme on Shodhganga

Shodhganga, a repository of Indian Electronic Theses and Dissertations, developed and managed by the INFLIBNET Centre was launched in January 2010. As on 30th September 2012, 73 universities have signed MoU with the INFLIBNET Centre and number of theses in the repository has grown to 4034. 18 universities, who signed MoU with the INFLIBNET Centre during the period under report, are as follows:

Sr.	Name of the University/ Institution	State	Date
1	Mohanlal Sukhadia University, Udaipur	Rajasthan	10th April, 2012
2	Narsee Monjee Institute of Management Studies, Mumbai	Maharashtra	21st April, 2012
3	Central University of Punjab, Bathinda	Punjab	19th May, 2012
4	Bharathiar University, Coimbatore	Tamil Nadu	21st May, 2012
5	Lovely Professional University, Jalandhar	Punjab	1st June, 2012
6	Gujarat University, Ahmedabad	Gujarat	4th June, 2012
7	University of Mysore, Mysore	Karnataka	8th June, 2012
8	Himachal Pradesh University, Shimla	Himachal Pradesh	9th July, 2012
9	Avinashilingm Institute for Home Science and Higher Education for Women, Coimbatore	Tamil Nadu	17th July, 2012
10	University of Kerala, Thiruvananthapuram	Kerala	20th July, 2012
11	Central University of Himachal Pradesh, Dharamshala	Himachal Pradesh	2nd August, 2012
12	Goa University, Goa	Goa	13th August, 2012
13	M.S. University of Baroda, Vadodara	Gujarat	22nd August, 2012
14	Vel Tech Dr. R R & Dr. S R Technical University, Avadi	Tamil Nadu	23rd August, 2012
15	S.N.D.T Women's University, Mumbai	Maharashtra	28th August, 2012
16	Shri Mata Vaishno Devi University(SMVDU), Katra	Jammu and Kashmir	4th September, 2012
17	Suresh Gyan Vihar University, Jaipur	Rajasthan	19th September, 2012
18	Dr. Balasaheb Sawant Konkan Krishi Vidypeeth, Dapoli	Maharashtra	21st September, 2012

User Awareness Programme on Shodhganga, Mohanlal Sukhadia University, Udaipur, Rajasthan, 10th April 2012

One-day User Awareness Programme on Shodhganga, jointly organized by the INFLIBNET Centre and Mohanlal Sukhadia University, Udaipur, Rajasthan was held on 10th April, 2012 at University College of Science, Mohanlal Sukhadia University, Udaipur. Prof. K. Venugopalan, Dean, Post Graduate Studies welcomed the dignitaries on the dais as well as guests and the participants. Prof Maheep Bhatnagar, Chairman, Faculty of Science inaugurated programme and handed over the electronic copies of the Ph D theses to Shri Manoj kumar K., Scientist D (CS),



Prof A K Goswami, Dept of Industrial Chemistry, Prof Maheep Bhatnagar, Chairman, Faculty of Science, Prof. K Venugopalan, Course Director, Informatics and Computational Science, Dr Ramkesh Meena, Dy. Librarian, Mohanlal Sukhadia University, Udaipur and Shri Manoj Kumar K. Scientist D (CS), INFLIBNET Centre on the dais during the Signing of MoU and Awareness Programme on Shodhganga

INFLIBNET Centre during the Inaugural session to host them in Shodhganga. Shri Manoj Kumar K., Scientist D (CS), INFLIBNET Centre was the key note speaker. Dr. Ramkesh Meena, Dy. Librarian extended a warm vote of thanks to the university authorities and representatives from INFLIBNET Centre. 200 delegates participated in the function.



Shri Manoj Kumar K., Scientist D (CS) INFLIBNET Centre along with the Participants of the Awareness programme on Shodhganga

Mohan Lal Sukhadia University Signed the MoU with INFLIBNET Centre on Shodhganga on 10th April, 2012. Prof. I .V. Trivedi, Vice Chancellor, MLS University and Dr Jagdish Arora, Director, INFLIBNET Centre sign the MoU on behalf of their respective institutions.

User Awareness Programme and Signing of MoU on Shodhganga, M. S. University of Baroda, Ahmedabad, 22th August 2012

The M. S. University of Baroda signed the MoU with INFLIBNET Centre on Shodhganga on 22nd August, 2012. Prof Yogesh Singh, Vice Chancellor, M. S. University of



Dr. Mayank Trivedi, Librarian, Hansa Mehta Library, Shri Manoj Kumar K. Scientist D (CS), Dr. Jagdish Arora, Director, INFLIBNET Centre, Prof. Yogesh Singh, Vice Chancellor, Dr. Amit Dholakia, MSU's Officer on Special Duty (Registrar), Member, Council of Postgraduate Studies and Research and Prof. Arun Pratap, Department of Applied Physics, M. S. University of Baroda on the dais during the Signing of MoU

Baroda welcomed the invitees. Dr. Amit Dholakia, MSU's Officer on Special Duty (Registrar) and Dr Jagdish Arora, Director, INFLIBNET Centre signed the MoU on behalf of their respective institutions. The signing ceremony was attended by Prof. Yogesh Singh, Vice Chancellor, Prof. Arun Pratap, Department of Applied Physics and Member, Council of Post Graduate Studies & Research, Faculty of Technology & Engineering, Dr. Mayank Trivedi, Librarian,

Hansa Mehta Library, M. S. University of Baroda, Shri Manoj Kumar K., Scientist D (CS), INFLIBNET Centre and Members of Syndicate. The Programme was coordinated by Prof. Arun Pratap. After singing the MoU, One-day User Awareness Programme on Shodhganga was jointly organized by M. S. University of Baroda in collaboration with the INFLIBNET Centre, Ahmedabad on 22th August 2012 at Senate Hall, M. S. University of Baroda. Shri Manoj Kumar K., Scientist-D (CS), INFLIBNET Centre was the resource persons for the training programme. Shri Manoj Kumar made a detailed presentation on “Shodhganga: A Repository of Indian Theses & Dissertation” and guided the students about the access to various information and academic resources. More than 200 participants including faculties and research scholars attended the programme and sought clarifications about Shodhganga.

Signing of MoU on Shodhganga, 4th June 2012 and User Awareness Programme, 27th August 2012 Gujarat University, Ahmedabad

One-day User Awareness Programme on Shodhganga was jointly organized by Gujarat University in collaboration with the INFLIBNET Centre, Ahmedabad on 27th August 2012 at the Library & Information Science Auditorium Hall, Gujarat University. Shri Arvind Bhandari, Registrar, Gujarat University inaugurated the programme. Shri Ashvin Bhavsar, University Librarian, Gujarat University welcomed the participants and

guests. Shri Manoj Kumar K., Scientist-D (CS), and Project Staff, INFLIBNET Centre were the resource persons for the programme. Shri Manoj Kumar made a detailed presentation on “Shodhganga: A Repository of Indian Theses & Dissertation” and its benefits to research scholars and submission process. Dr. (Mrs.) Shobana Menon, HOD of Faculty of Science, Gujarat University and Dr. (Mrs.) Savita Gandhi, HOD, Rolwala Computer Centre, Gujarat University spoke about their experiences with PhD Scholars and digitisation during the felicitation and extended all support for Shodhganga. Dr. Yogesh Parekh, Assistant Librarian, Gujarat University expressed gratitude to all invitees, participants, guests and authorities of Gujarat University as well as to the INFLIBNET Centre. More than 20 participants attended the programme and certificates of participation were also distributed to the participants at the end of the programme.

Gujarat University Signed MoU with INFLIBNET Centre on 4th June 2012 during the inaugural function of New Building and New Facilities at Gujarat University Campus at Zoology Department Auditorium, Gujarat University in presence of Shri Ramanabhai Vora, Hon'ble Education Minister of Gujarat. Dr. Jagdish Arora, Director, INFLIBNET Centre was felicitated by Dr. Parimal Trivedi, Vice Chancellor, Gujarat University during the Programme for his Contribution made to the Gujarat University as well as to the INFLIBNET Centre.



Dr. (Mrs.) Shobana Menon, HOD, Faculty of Science, Dr. (Mrs.) Savita Gandhi, HOD, Rollwala Computer Centre, Shri Arvind Bhandari, Registrar, Gujarat University, Shri Manoj Kumar K., Scientist D (CS), INFLIBNET Centre and Shri Ashvin Bhavsar, University Librarian, Gujarat University on the dais during the Awareness Programme on Shodhganga

Induction Programme on Library Automation, INFLIBNET Centre, Ahmedabad 19th-20th July, 2012

The two-day induction programme on Library Automation was organized by the INFLIBNET Centre from 19th to 20th July 2012 at INFLIBNET Centre, Ahmedabad for Librarians/representatives of Universities that were given financial aid under Library Automation grant 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 reminded the participants that they need to contribute bibliographic records for their libraries in standard bibliographic format for INFLIBNET's Union Catalogue (IndCat). Sh. H G Hosamani, Scientist-C (LS), INFLIBNET Centre proposed a warm vote of thanks. 20 participants attended the workshop from universities that have received grant from the UGC for library automation

The following staff from the INFLIBNET Centre served as resource persons made presentations on various topics:

- * Sh. Manoj Kumar, Scientist D(CS) on "An overview of INFLIBNET Activities and Services"
- * Mrs. Vaishali Aditya Shah, Scientist-B (LS) on "About Union Catalogue of INFLIBNET Centre (IndCat)"

- * Sh. Abhishek Kumar, Scientist-B (CS) on "Online Copy Catalogue System"
- * Sh. Rajesh Chandrakar, Scientist-B (LS) on "Bibliographic Standards"
- * Sh. H G Hosamani, Scientist-C (LS) on "Soul 2.0 Overview"
- * Dr. D K Singh, Deputy Librarian, BHU, Varanasi on "Library Automation: Case Study of Banaras Hindu Univ. Library, Varanasi"
- * Sh. Yatrik Patel, Scientist-D (CS) on "Creation of Institutional Repository using Dspace"
- * Dr. Mayank Trivedi, Librarian, M S Univ., Baroda on "Library Automation: Case Study of M.S. University Library, Baroda"
- * Sh. Ashok Kumar Rai, Scientist D (CS) on "UGC-INFONET Digital Library Consortium".

Certificates of participation were distributed to all the participants by Sh. Ashok Kumar Rai, Scientist-D (CS), INFLIBNET Centre, Dr. Mayank Trivedi, Librarian of M S University, Baroda and Dr. D K Singh, Deputy Librarian of BHU, Varanasi during valedictory session.

Certificates of participation were distributed to all the participants by Sh. Ashok Kumar Rai, Scientist-D (CS), INFLIBNET Centre, Dr. Mayank Trivedi, Librarian of M S University, Baroda and Dr. D K Singh, Deputy Librarian of BHU, Varanasi during valedictory session.



Participants of Library Automation workshop with the Director and Technical Staff of the INFLIBNET Centre

Workshop on Development of Institutional Repository using DSpace with Special Reference to Creation of ETD Archive

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, New Delhi in collaboration with INFLIBNET Centre, Ahmedabad from 23rd to 27th July 2012. Dr. Ramesh C Gaur, University Librarian, welcomed the participants and guests. Prof Sudha Pai, Rector, JNU inaugurated the programme. Shri Gopal Krishan, Senior Programmer, IIT, Delhi started the technical session of the Workshop with an introduction on Linux Operating System. After his presentation, all the participant went through “hands-on” practice on different commands of Linux. On the second day, Shri Gopal Krishan demonstrated networking and administration of Linux system. Prof. A.R.D. Prasad, DRTC, Bangalore started his session with an informative introduction on the digital repository software called

DSpace on the third day. He demonstrated DSpace with Live CD and took a session on metadata harvesting using OAI-PMH Protocol.

On Fourth day, Shri Swapnil Patel, Scientist-B (CS), INFLIBNET Centre took a lecture on DSpace Administration followed by exercise on creating institutional repository with help of Mr. Bhavesh Patel, Project Officer (CS), INFLIBNET Centre. Mr. Manoj Kumar K, Scientist-D (CS), INFLIBNET Centre took a session on Shodhganga. In his talk, he covered the history, structure and other aspects of Shodhganga.

On last day, Shri Swapnil Patel, Scientist-B (CS) talked on DSpace Customization and DSpace backup and restore module. Dr. B.B. Sahoo gave a talk on metadata standards. Dr. R. C. Gaur, University Librarian made a presentation on “Digitization and Digital Preservation”. Mr. Bhavesh Patel, Project Officer (CS), INFLIBNET Centre was involved in helping the participants in the practical sessions.



Participants of “Development of Institutional Repository using DSpace with Special Reference to Creation of ETD Archive Training Programme”

National Workshop on "Intellectual Property Right with Reference to Patents and Copyrights"

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

A two-day National Workshop on 'Intellectual Property Rights with Reference to Patents and Copyrights' was organized by the Department of Library and Information Science, Mizoram University, Aizawl in collaboration with INFLIBNET Centre, Ahmedabad and DRDO, New Delhi on 27th August, 2012. The Inaugural Session commenced with an offering of bouquet to Chief Guest Prof. A K Agarwal, Head, Dept. of Economics and in-charge Vice-Chancellor, Mizoram University, Chief Speaker Prof. Thangchungnunga, Registrar, Mizoram University, Aizawl presided over the inaugural function. Prof. Pravakar Rath, Head of the Department, Prof. R K Ngurtinkhuma, Coordinator and the distinguished guests on the dais and the participants offered floral tributes to the portrait of Dr. S R Ranganathan to commemorate his outstanding contributions to the library science. Prof. Pravakar Rath, Head, Department of Library & Information Science welcomed the participants, dignitaries, deans, head of the departments, faculty, research scholars, and other invitees. Prof. Rath, in the brief introduction, highlighted the importance of National Workshop on Intellectual Property Rights and

Copyrights. In his speech, he pointed out the significance of copyright in academic institutions and emphasized on citations/ references in the literary output. He mentioned the role of librarian for adhering to the copyright and licensing. Prof. A K Agarwal, Head, Dept. of Economics and in-charge Vice-Chancellor, Mizoram University, in his speech, elaborated about the importance of workshop to faculty and research scholars. He pointed out the relevance of IPR and copyright in the library. Prof. Agarwal mentioned the crucial role of the library for adhering to the licensing policies and faculty while guiding research scholars to strictly follow the norms of copyright. Prof. Thangchungnunga, Chief Speaker, & Registrar of Mizoram University, in his address, discussed the role of university teachers to maintain legal issues of copyrights while guiding research scholars. He mentioned the changing role of libraries in the electronic environment. He opined that the library professionals must adhere strictly to the principles of copyright and take measures to protect the intellectual output of the university. Prof. R K Ngurtinkhuma offered a vote of thanks to the university, participants as well as to the INFLIBNET Centre. 40 participants attended the workshop including librarians, faculty and research scholars.

Technical Sessions

The first technical session commenced with the presentation of Dr. (Mrs) S. Banerjee from L. S. Davar & Co., Kolkata on 'Patent Laws and its application in Indian scenario'. She focused on the national and international scenario of patents and the role of library in preserving the patents.

In the second technical session Dr. V S Thomas, University Librarian, W.B. National University of Juridical Sciences, Kolkata made a presentation on 'Copyright Laws in India and its Application in the Electronic Environment'. Dr. Thomas mentioned about the copyright and the role of librarians. He emphasized on the citation of the referred documents by the research scholars and faculty while writing the research paper. He further mentioned that the citation must be according to the specific citation style followed in bibliography.



Prof. A K Agarwal, Head, Dept. of Economics and in-charge Vice-Chancellor, Mizoram University, Prof. Thangchungnunga, Registrar, Mizoram University, Prof. Pravakar Rath, HOD, Dept. of Library and Information Science, Mizoram University, Prof. R K Ngurtinkhuma, Coordinator on the dais during the Workshop on 'Intellectual Property Rights with Reference to Patents and Copyrights'

The third technical session on the second day of the workshop began with a lecture by Dr. Swati Bhattacharya, Librarian, IIM, Kolkata on 'IPR and Copyright-Adopting Best Practices in Libraries'. She stated that Intellectual property shares many of the characteristics associated with real and personal property. She further mentioned that intellectual property is an asset, and it can be bought, sold, licensed, exchanged, or gratuitously given away like any other form of property. Further, the intellectual property owner has the right to prevent unauthorized use or sale of the property. The fourth presentation was made by Dr. Moortimatee Samantary, Head, LDD, NCERT, New Delhi on 'Copyright vs Authors, Publishers and Librarians'. She mentioned that copyright is an exclusive right to reproduce an original work of authorship fixed in any tangible medium of expression, to prepare derivative works based upon the original work, and to perform or display the work in the case of musical, dramatic, choreographic and sculptural works.

Presentations were concluded with an interactive discussion among the participants and faculty.

Panel Discussion on 'Protecting Intellectual Output in a Knowledge Society'

The panelists were Prof. J K Patnaik, Dr. Swati Bhattacharya, Dr. M. Samantaray, Prof. P K Rath and Prof. R K Ngurtinkhuma. Prof. Patanaik highlighted several prominent issues on Intellectual Property Rights. He mentioned about the authors' right in intellectual output and also expressed that copyright protection does not extend to any idea, procedure, process, system, method of operation, concept, principle, or discovery, regardless of the form in which it is described, explained, or embodied. Dr. Swati Bhattacharya elaborated on patents as intellectual property, Dr. Samantaray discussed on copyright prevailing with authors and highlighted the laws passed by the Govt. of India in 2012. Prof. R K Ngurtinkhuma mentioned the primary issues on patents for trade and highlighted its relevance in libraries. Prof. P K Rath while answering to the questions from the participants pointed out that copyright and patents play an indispensable role in the libraries. He discussed about the protection of the intellectual property of the institutions, authors, etc. The workshop concluded with a lively discussion among the panellists and participants.

Presentation on INFLIBNET Centre to Shri Kapil Sibal, the Honourable Minister of Human Resource Development by Dr. Jagdish Arora, Director

Presentation on INFLIBNET Centre to Shri Kapil Sibal, the Honourable Minister of Human Resource Development by Dr. Jagdish Arora, Director, INFLIBNET Centre on 1st July, 2012

The Director, INFLIBNET Centre made a presentation on INFLIBNET Centre, its services and activities to the Shri Kapil Sibal, Honourable Minister of Human Resource Development on 1st July, 2012 in his chamber at MHRD, Shashtri Bhawan, New Delhi. Besides the HRM, Prof. Ved Prakash, Chairman, UGC, Shri Ashok Thakur, Secretary (HE), Shri V Uma Shankar, Joint Secretary and PS to the HRM, Shri R P Sisodia, JS (HE) and Shri Amit Shukla, Dy. Secretary (HE), MHRD also attended the presentation. The Hon'ble Minister took note of the services and activities of the Centre and appreciated the new initiatives taken by the Centre including N-LIST, OJAS, Shodhganga, Shodhgangotri, etc. He desired that the INFLIBNET Centre should take a lead in consolidating the consortia initiatives in India to benefit larger cross-sections of colleges, universities and institutions of higher learning.

N-LIST: Current Status and New Developments

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

The N-LIST Programme has registered a total number of 2,854 colleges as on September 30, 2012, including 2,610 eligible colleges that are already getting access to resources subscribed under the N-LIST programme. Login IDs and passwords have been issued to more than 3,75,000 faculty members, students and researchers after obtaining list of authorized users from these 2,610 registered colleges. Group login ID and passwords have also been issued to colleges awaiting list of actual users.

Resource Selection for N-LIST

The Second Meeting of the Resource Selection Committee for the N-LIST was held on June 22, 2012 at Central Library, IIT Delhi. 11 publishers / their representatives were invited to make presentation on electronic books that they wish to offer to the colleges covered under N-LIST programme. Each publisher / their representatives were asked to make a detailed presentation on their e-book collection, its size, category of books covered, major features and functionalities of the hosting platform, etc. After detailed discussions and deliberations, it was agreed that additional number of titles may be added from the following publishers whose electronic books are already available under the N-LIST programme since past one year: i) Cambridge University Press ii) Oxford University Press iii) Springer and iv) Taylor & Francis.

It was also agreed that the negotiations for purchase of e-books from the following two publishers may be carried out since both the publishers have good quality e-books suitable for the colleges: i) Sage Publications and ii) McGraw Hill India Education Pvt. Ltd.

After detailed discussions and deliberations, it was agreed that the e-book collections offered by the following publishers / aggregators should be evaluated by the members of Resource Selection Committee for the content being offered by them. The members of the Resource Selection Committee were given user-ID and password to access these resources for evaluation purposes:

- i) General Social Science Collection (e-books from 6 university presses and 5 other societies) offered by iGroup
- ii) EBSCO-NetLibrary
- iii) World Technology on My-i-Library Platform offered by Swet
- iv) Palgrave Macmillan
- v) Pearson Education

Based on the feedback from the members of the Resource Selection Committee, it was agreed that selected publishers / aggregators from the above mentioned publishers may be called for negotiations.

Presentation on N-LIST to the Apex Body of NME-ICT by Dr. Jagdish Arora, Director, INFLIBNET Centre on 2nd July, 2012

The project "National Library and Information Services Infrastructure for Scholarly Content (N-LIST)", being executed jointly by the INFLIBNET Centre and IIT Delhi was selected for a special presentation before the Apex Body of NME-ICT chaired by Shri Kapil Sibal, Hon'ble Minister, Human Resource Development on 2nd July, 2012 in Habitat Centre, New Delhi. Dr. Jagdish Arora, Director, INFLIBNET Centre made the presentation as Co-PI of the project on resources offered implementation methodology, economics, cost effectiveness and current status of N-LIST. The members took note of the honours and awards bestowed onto the INFLIBNET Centre for N-LIST Project. The Hon'ble Minister desired that the access to e-resources under the N-LIST programme should also be extended to professional colleges including engineering, management, agricultural, medical colleges, etc. with inclusion of appropriate resources.

e-PG Pathshala: Current Status and New Development

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. 36 subjects have been identified for the development of e-content in 1st phase.

A Learning Management System (LMS) has been set-up at the INFLIBNET Centre on a dedicated server that is available in open access at <http://www.inflibnet.a.in/epgp>.

Currently the process of identification of papers in each subject and modules in each paper is in progress. The content for the subject Botany (01 module), Computer Science (01 module), Environmental Science (01 module), Library Science (2 modules) and Political Science (01 module) have been developed and uploaded on the Learning Management System.

Responsibility of E-content Creation in Library & Information Science at Postgraduate Level assigned to the INFLIBNET Centre under e-PG Pathshala

The Standing Committee on Production of Courseware E-content for Postgraduate Subjects appointed Dr. Jagdish Arora, Director, INFLIBNET Centre as Subject Coordinator for the Library and Information Science and assigned the responsibility for developing e-content in Library and Information Science at PG level to the INFLIBNET Centre. Under this initiative, the Centre would develop 560 e-modules in 16 papers of Master in Library and Information Science (2 years integrated course). The Centre has earlier been assigned the responsibility for technical and administrative coordination of e-PG Pathshala with financial support from MHRD under the National Mission of Education through ICT.

Workshop on e-Content Development for PG Courses for National Coordinators and Subject Coordinators under e-PG Pathshala, Institute for Studies in Industrial Development, New Delhi, 18th August 2012

One-day National Workshop on Content Creation for National Coordinators and Subject Coordinators, e-PG

Pathshala was organised by the Information and Library Network Centre in collaboration with University Grants Commission on 18th August, 2012 at Institute for Studies in Industrial Development (ISID), New Delhi. Prof H P Dikshit, National Coordinator, e-PG Pathshala delivered the welcome address during the Inaugural session. Prof R G Harshe, National Coordinator, e-PG Pathshala in his address to the participants, introduced theme of the workshop and highlighted its objectives. Prof M. Anandkrishnan, Chairman, Standing Committee, e-PG Pathshala graced the occasion as a Guest of Honour and delivered a talk on status and importance of e-learning in higher education. Prof. Anandkrishnan, in his presentation, touched upon various aspects of e-learning and its benefits with respect to interdisciplinary exposure to the students. He stated that virtual education is booming due to the technological Darwinism and e-learning would provide a platform to the student to absorb difficult concepts on their own. Prof Ved Prakash, Chairman, University Grants Commission and Chairman, Programme Implementation Committee, e-PG Pathshala, in his inaugural address, lauded the efforts made by the INFLIBNET Centre in organising such a programme for the benefit of National Coordinators and Subject Coordinators so as to familiarise them with various processes involved in the process of e-content development. Prof Ved Prakash highlighted a number of critical crises in the higher education system in India including identity, governance and resources. He emphasised that it is the responsibility of higher education system to provide self-learning course materials through e-PG Pathshala that should reach not only to urban population but also to rural part of India to fulfil the growing needs of the students. Dr Jagdish Arora, Director, INFLIBNET Centre delivered a warm vote of thanks to authorities in UGC, Chairman and member of the standing committee as well as to the participants.

During the Technical Session, Prof A K Bakhshi, National Coordinator, e-PG Pathshala, delivered lecture on e-content development process and explained role and responsibilities of National Coordinators and Subject Coordinators. Dr Vimal Rarh, Assistant Professor, Khalsa College, New Delhi made a presentation on input and output template and various standards to maintain uniformity of the course content. Dr Jagdish Arora,

Director, INFLIBNET Centre, in his presentation on responsibilities of INFLIBNET Centre and activities involved in production of course content like content collection, multimedia enrichment, hosting on the LMS, document management etc. Dr. Archana Thakur, Deputy Secretary, University Grants Commission, in her presentation, described about guidelines and payment norms to the Content Development Team.

More than 45 participants attended the workshop including National Coordinators, Subject Coordinators and Paper Coordinators. Feedback session held in the afternoon was chaired by all the members of Standing Committee, where in participants raised question on following issues:

1. Standard style manual for content writer (fonts, line space, table, picture and references)
2. Issues related to implementation of four Quadrant approach specially for social science and arts subjects
3. Standard syllabus for all the papers based on the current trend
4. Classification of subjects, papers and modules based on international standard
5. Defining standard workflow and procedures for reviewing, monitoring, possibility to appoint

more reviewers

6. Providing assistance to subject coordinators for admin work (Keying-in and formatting)
7. Separate workshop for subject or group of similar subjects regarding template, storyboard writing incorporating multimedia in the content, reference to the other content, copyright issues
8. Guideline on procedure to be followed by subject coordinator to appoint paper coordinators and content writers
9. Availability of content in regional languages
10. Difficulties to develop course content for social work education (particularly for the field work)
11. Provision of interdisciplinary coordinators for interdisciplinary subject (Botany, zoology, biotechnology)
12. More module for interdisciplinary subjects (45 instead of 35)

While answer to some of the questions were given instantly on the spot, the member of the Standing Committee assured the participants that issues that have not been addressed to will be taken up in the next meeting of Standing Committee to come up with appropriate solution for all the issues flagged by the participants.

The screenshot shows the e-Pathshala website interface. At the top, there is a navigation bar with links: Home, Student Corner, Uploaded Content, NME-ICT (MHRD), Other Open Learning Links, and Contact Us. Below this is a large banner image with the text "Self-Learning" and "e-Text". To the right of the banner, there is a text block describing the MHRD project under its National Mission on Education through ICT (NME-ICT). Below the banner, there are two main sections: "e-Content in-Progress" and "Course / Subjects @ ePathshala". The "e-Content in-Progress" section lists a national workshop for the National Coordinator and Subject Coordinator. The "Course / Subjects @ ePathshala" section lists various subjects such as Anthropology, Biotechnology, Chemistry, Computational Sciences, Computer Science, Biochemistry, Botany, Commerce, Computational Social Science, and Earth Sciences. On the right side, there are sections for "e-PG Pathshala" with links for Project Coordination, Team, Workflow, and Guideline, and a "Downloads" section with links for Virtual visit of website and Workshop Brochure.

UGC Infonet University Forum

UGC Infonet University Forum, 13th June 2012

The 3rd University Forum, organized by INFLIBNET Centre and Elsevier Science was held at the Taj Mahal Hotel, New Delhi on 13th June 2012. Prof. Ajit Khembhavi, Director, IUCAA welcomed the delegates and in his welcome address, he stated that the forum has become a prominent platform to discuss knowledge sharing among students, teachers, researchers and universities. He remarked that the forum was growing in size. Mr. Martin O' Malley, Managing Director, Global Sales & Customer Marketing, Elsevier Science & Technology Division addressed the participants and guests, he stated that Elsevier, as a leading publisher, is focusing on quality, access and sustainability to enable collaboration to build an environment conducive to research and learning. Dr. Jagdish Arora, Director, INFLIBNET Centre spoke on the need of developing models that are sustainable and extendable to all the universities in India. In keynote address, Prof. N. Prabhu Dev, Vice Chancellor, Bangalore University opined that access to e-resources to university libraries in Karnataka has truly revolutionized the process of knowledge dissemination and access.

Additionally, the forum also witnessed the presence of the following international speakers who delivered enriching presentations about the role of e-resources in process of teaching, learning and research.

- ◆ Ms. Paula Kaufman, Dean of Libraries & University Librarian, University of Illinois, Urbana-Champaign spoke on the value of e-books. She stated that eBooks are cost effective, have 24 X 7 easy access, are easy to preserve and can be downloaded on multiple search engines.
- ◆ Mr. Gerald J. Schafer, Director of Libraries, University of Massachusetts – Amherst gave a presentation on 'Driving the Value of Library Services within an Institution'. He highlighted the patterns of accessing digital resources among students, teachers and researchers. He shared his observation that the majority of people accessed digital books and journals without visiting the library.

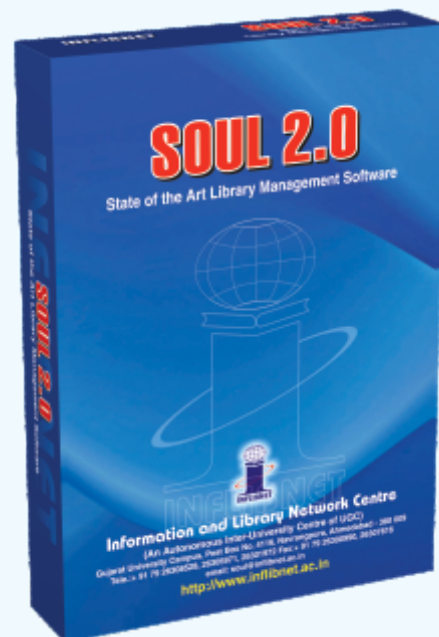
- ◆ Dr. Thomas C. Leonard gave a presentation on 'Library Contributions to Research Workflow', and drove home the point that capture and preservation of web resources would increase and create a new dimension to special collection which would, in turn, aid research.

There was an Open House Discussion with panel, Dr. Jagdish Arora, Mr. Martin O' Malley, Mr. Lim KokKeng and Mr. Saurabh Sharma answered the questions put up by the delegates. Mr. Jack Huang, Head of Regional Customer Development, Elsevier Asia Pacific gave the vote of thanks. The delegates said that the forum was a great learning experience for them in terms of adding to their knowledge of accessing the digital content. The forum was attended by more than 80 delegates from different Ministries, UGC and universities from across the nation.

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JSTOR India Forum 2012

JSTOR India User's Forum, 4th Sept., 2012, JNU, Delhi

The JSTOR, in collaboration with the INFLIBNET Centre, Ahmedabad and Jawaharlal Nehru University, New Delhi organized JSTOR India User's Forum on 4th September 2012 in JNU, New Delhi. Dr. Ramesh C Gaur, University Librarian, JNU and coordinator of the programme, welcomed the invitees and participants.

The following presentations were made during the meet:

- i) Analyzing Usage Statistics of Electronic Resources, by Dr. Jagdish Arora, Director, INFLIBNET
- ii) Transition from Print to Digital, Dr. Usha Mujoo Munshi, Chief Librarian, IIPA, New Delhi
- iii) JSTOR Usage Analysis and Discovery, Mr. John Lenahan, Associate Vice President, JSTOR
- iv) JSTOR Digital Collections Overview, Mr. John Lenahan, Associate Vice President, JSTOR
- v) Preservation of Electronic Resources and Solutions from Portico, Mr. John Lenahan, Associate Vice President, JSTOR

Discussions on different resources and services offered by JSTOR including JSTOR archive, current scholarship, books and Portico, etc. was organized as part of the meeting. A meeting of different consortia coordinators with Mr. John Lenahan coincided with this event for exploring the possibility of inclusion of JSTOR and Portico for all consortia.

JSTOR India User's Forum, 6th Sept., 2012, NIAS, Bangalore

The JSTOR, in collaboration with the INFLIBNET Centre, Ahmedabad and National Institute of Advanced Studies, Bangalore, organized JSTOR India User's Forum on 6th September 2012 in NIAS, Bangalore. The forum was inaugurated by Prof. V S Ramamurthy, Director, NIAS. Prof. Ramamurthy in his address applauded the efforts made by the INFLIBNET Centre for making highly scholarly content accessible to the colleges, universities and other institutions through N-LIST and UGC INFONET programme.

The following presentations were made during the meet:

- i) Analyzing Usage Statistics of Electronic Resources, by Dr. Jagdish Arora, Director, INFLIBNET
- ii) Transition from Print to Digital, Dr. Usha Mujoo Munshi, Chief Librarian, IIPA, New Delhi
- iii) JSTOR Usage Analysis and Discovery, Mr. John Lenahan, Associate Vice President, JSTOR
- iv) JSTOR Digital Collections Overview, Mr. John Lenahan, Associate Vice President, JSTOR
- v) Preservation of Electronic Resources and Solutions from Portico, Mr. John Lenahan, Associate Vice President, JSTOR

Discussions on different resources and services offered by JSTOR including JSTOR archive, current scholarship, books and Portico, etc. was organized as part of the meeting. A meeting of prominent librarians in Bangalore with Mr. John Lenahan coincided with this event.

Assessing and Evaluating Research Performance of an Institution using Bibliometric Indicators

Jagdish Arora and Kruti Trivedi

The author of the article, Jagdish Arora, Director of the INFLIBNET Centre and Kruti J Trivedi Scientist, B(LS), INFLIBNET Centre explains methods and metrics for assessing and evaluating research performance of an institution using Bibliometric Indicators. The paper highlights some of the underlying principles and metrics that are used for evaluation of research performance. It also provides background information to assist the universities / institutions to conduct evaluation of research performance. Ms. Kruti J Trivedi is looking after N-LIST Programme and UGC-INFONET Digital Library Consortium. She is also involved in measuring research output of member universities. Dr. Jagdish Arora heads the institution. Both can be contacted kruti@inflibnet.ac.in and director@inflibnet.ac.in.

1. Introduction

The generation and transmission of knowledge through research has long been recognized as an essential requirement for a country's long-term growth and competitiveness as well as for creating capacity to solve social problems (World Bank, 1998). Considering the fact that the benefit of increasing research output and potentiality to increase economic growth, many governments, regulatory bodies and funding agencies have increased research funding to universities. Since funding for research to a university should logically commensurate with its research output, there is a need to identify performance indicators for qualitative evaluation of research output. These performance indicators are being used as a tool to find out research performance of a university as well as to determine funding allocations. The main focal points of research evaluation are productivity, quality, impact, and utility of research output in terms of generating technological, economical or social benefits. Qualitative parameters and performance indicators are being evolved to measure all these different aspects of research evaluation. As regards to assessment methods, the literature on research performance shows that bibliometric analysis and peer review are the main approaches for assessing the quality and impact of research. In this paper, we outline the need for university research assessment, types of performance indicators and metrics that can be used, particularly in relation to research within universities.

2. Need for Assessments of Research Output

There are a number of reasons to justify assessments of government funded research in present era. The first and foremost reason is ever growing cost of conducting planned research that includes cost of subscription to peer review literature, scientific instrumentation and infrastructure that are required to conduct research. As universities spend huge amount to set-up research facilities, it becomes necessary for the university to evaluate status of their comparative research performance. Moreover, on an average Government funding for R&D is increased 5% to 10% every year. Performance indicators are used not only to identify new areas of research and researchers for fund allocation but also to identify declining areas of research. Furthermore, evaluation of research performance is also an issue of social responsibility and accountability. Research evaluation assures Government and public that their contributions are being well spent. Universities are expected to become more efficient in their use of public resources and more accountable (Massy, 1996). In US, the Government Performance and Results Act was passed in 1993, which requires federal agencies to establish strategic planning and performance measurement. This, in turn, requires the establishment of performance goals and performance indicators to assess output, service level and outcome. Research assessment also enable research funders and policy makers to make better decisions about funding, ranking, awards, promotion, benchmarking, etc. There are three reputed

globally-recognized rankings of the world universities, namely i) Shanghai Jiao Tong University's Academic Ranking of World University; ii) Academic ranking of world universities compiled by the QS World University Ranking; and iii) Times Higher Education World University Ranking. All these three “rankings” have used different sets of indicators and parameters for ranking the universities. Apart from all other parameters, research performance is one of the major and high weightage indicators to identify ranking of World class University. It is, therefore, important for a university to evaluate their research strengths and weaknesses and prioritize research areas to formulate a strategy for future work

3. Bibliometric Indicators

Bibliometric indicators are generally used to assess the status of research performance across institutions and geographical regions/countries. It addresses the issues such as: (i) Is a University contributing more or less to research output in a particular field or sub-field in comparison to other universities? (ii) Is it performing better than others?, and (iii) Is it contributing more research output in a particular area compared to others? Two types of indicators, namely absolute and relative indicators are generally used for bibliometric analysis. Publications count, journals count, and citations count, etc. are the examples of absolute indicators. These are used frequently for bibliometric analysis. On the other hand, activity index (AI), and relative citation Index (RCI) are examples of relative indicators, which is used to assess the strengths and weaknesses of a university on relative basis. For example, activity index of a university, e.g. University of Delhi, in a particular subject field, e.g. Chemical Sciences, can be used to compare publication activity against average publication activity of the country, which is taken as the benchmark for comparing publications activity of various universities. It can also be used to identify research priorities of different countries or regions within the country. It also helps to understand the strength of the university in various subjects (NISTADS, 2006). Various indicators used for measuring the publications and citations output of the university, institute, geographical region or country across disciplines are described below..

4. Measuring Growth of Research Publication of an Institute

Number of research papers published in peer-reviewed journals is a reasonable measure of research productivity. It provides an estimate of the productivity of research and related knowledge generation. The indicator defines the level of scientific progress made by an individual, institute, group, university or country.

Publication (P):

Total number of papers published by the research institutes for a given period. Number of Publications (P) can further be used to determine:

► AGR (Annual Growth Rate):

AGR provides average increase in number of publications over a period of 5, 10 or more years. This metric is a used to measure the growth of publications in different subject areas over a period of time for a given university or set of universities. AGR is calculated using the following formulae :

$$\text{AGR} = \frac{\text{Current Decade Total} - \text{Previous Decade Total}}{\text{Previous Decade Total}} * 100 / \text{Number of Years}$$

❖ For Example:

Years	No. of Publications
1971-1980	= 429
1981-1990	= 706
1991-2000	= 1031
2001-2010	= 1391

$$\text{AGR} = \frac{(706-429)}{429} * 100 / 10 = \frac{277}{429} * 100 / 10 = \frac{64.57}{10} = 6.46\%$$

$$\text{AGR} = \frac{(1031-706)}{706} * 100 / 10 = \frac{325}{706} * 100 / 10 = \frac{46.03}{10} = 4.60\%$$

$$\text{AGR} = \frac{(1391-1031)}{1031} * 100 / 10 = \frac{360}{1031} * 100 / 10 = \frac{34.92}{10} = 3.49\%$$

➤ **AAGR (Average Annual Growth Rate):**

Average value of Annual Growth Rate (AAGR) for different period is calculated using the formulae given below.

(Growth Rate in Period A + Growth Rate in Period B + Growth Rate in Period C +
... Growth Rate in Period X)

$$\bullet \text{ AAGR} = \frac{\text{Growth Rate in Period A} + \text{Growth Rate in Period B} + \text{Growth Rate in Period C} + \dots + \text{Growth Rate in Period X}}{\text{Number of Periods}}$$

❖ For Example:

$$\text{AAGR} = \frac{6.46\% + 4.60\% + 3.49\%}{3} = \frac{14.55}{3} = 4.85\%$$

5. Measuring Impact of Research Output

Impact of a research article can be measured by the number of citations received by it. Likewise, impact of a research institute can be measured in terms of cumulative number of citations received by all research publications authored by its faculty and researchers. The area of study that deals with evaluation and interpretation of number, frequency and pattern of citation reviewed by articles, scientist, universities, counties, etc is called citation analysis. Aim of citation analysis is to estimate impact made by publication of a scientists, institution or a country. A citation is an abbreviated alphabetic expression embedded in the body of an intellectual work that denotes an entry in the bibliographic reference section of the work for the purpose of acknowledging the relevance of the works (Wiki). The citations provide an idea about the utilization of published knowledge. It is considered that frequently cited paper have greater impact to influence subsequent research activities than a paper with no citations. Citation analysis studies that can be conducted to measure performance of an institute is as follows:

➤ **Citations with Self Citations:**

The number of citations of all articles of a university including self-citations (publications of a university citing themselves).

► **Real Average Citations:**

This metrics is used to assess quality of research publications across different subject areas, universities, and geographical regions, etc. The formulae for calculating Real Average Citations is:

$$\text{Real Average Citations} = \frac{\text{Total citations for the year or selected subject areas}}{\text{No. of papers having at least 1 citation}}$$

❖ For Example :

Out of 3,557 publications of a university, 2753 publications have received 24165 citations, in this case Real Average Citations is:

$$\text{Real Average Citations: } \frac{24165}{2753} = 8.78$$

► **Cited rate:**

Cited rate provides percentage of publications that have been cited at least once during pre-defined time period. The cited rate is calculated using following formulae:

$$\text{Cited Rate : } \frac{\text{Number of Papers having at least 1 Citation}}{\text{Total Number of Papers Published}} * 100$$

❖ For Example :

Out of 3,557 publications of a university, 2,753 publications have received 24,165 citations, in this case cited rate is:

$$\text{Cited rate} = \frac{2753}{3557} * 100 = 0.7739 * 100 = 7.40\%$$

► **Percentage of Publications not Cited (PNC) :** This metric provides percentage of publications not cited during a specified time period. PNC is calculated using following formulae:

$$\text{PNC} = \frac{(\text{Total Number of Papers Published} - \text{Number of Papers having at least 1 Citation})}{\text{Total Number of Papers Published}} * 100$$

❖ For Example:

Out of 3,557 publications of a university, 2,753 publications have received 24,165 citations, in this case percentage non-cited publication is:

$$\text{PNC} = \frac{(3557-2753)}{3557} * 100 = \frac{804}{3557} * 100 = 0.2260 * 100 = 22.60\%$$

➤ **H Index:**

The Hirsch index, or H-index, is a distribution-based indicator that corresponds to the number of papers at or above a given citation level equal to the value of the citation. This metric reflects the number of papers (N) in a given dataset having N or more citations (Thomson Reuters, 2008). For example, an H Index of 77, indicates that 77 papers in the given set were cited at least 77 times each. This metric attempts to reflect both productivity (number of papers) and impact (number of citations) by a single number. This metric is useful because it discounts the disproportionate weight of highly cited papers, or papers that have not yet been cited.

❖ For Example:

Number of Publications	Number of Citations Received (Highest to Lowest)
Paper -1	105
Paper -2	89
Paper -3	50
Paper -4	20
Paper -5	12
Paper -6	10
Paper -7	7
Paper -8	4
Paper -9	3

Data Sorted by Number of Citations Received in Decreasing Order

H Index

6 Analyzing Active and Passive Areas of Research

➤ **Relative Specialization Index:**

The Relative Specialization Index (RSI) compares the shares of subject disciplines in university's total publications to the overall shares of each subject discipline in world's total publications. The RSI is a relative indicator which is based upon the Activity Index (AI). The formulae for calculating Activity Index is:

$$AI = \frac{\text{The share of given field in the publications of the given university}}{\text{The share of the given field in the world total of publications}}$$

The RSI is then calculated using Activity Index as follows:

$$RSI = \frac{AI - 1}{AI + 1}$$

❖ For Example:

If, Total Number of Publications of the World in Engineering and Technology = 53,68,118 and
 Total number of Publication of a University in Engineering and Technology = 3557

$$AI = \frac{3557}{53,68,118} = 0.0007$$

Now,

$$RSI = \frac{0.0007-1}{0.0007+1} = \frac{-0.9993}{1.0007} = -0.9987$$

RSI takes its values in the range -1 to < 1. The value indicates whether a university has a higher-than-average activity in the world in a scientific field (RSI >0) or a lower-than-average activity (RSI <0). RSI = 0 reflects a completely balanced situation. It also reflects a certain internal balance among the fields at the given university; positive RSI values must always be balanced by negative ones, as no university can have only positive RSI values.

7 Measuring Collaboration

Research collaboration can be defined as working together of researchers to achieve the common goal of producing new scientific knowledge. Research collaboration requires work in partnership with other research investigators including government departments and agencies, universities and colleges, and industry. It extends across disciplines and organizational boundaries. Metrics of this indicator are used to measure share of collaborative activity of university and compare it with other institutes, country and world.

Collaboration Index is a relative measure of the collaborative activity of an institution. It is measured using following formulae:

$$\text{Collaboration Index} = \frac{\text{(Share of collaborated papers by an institution - in its total publications output)}}{\text{(Share of total collaborated papers by the country - in its total publications output)}}$$

❖ For Example:

If, university collaborates 1260 papers out of 5,286 total publications in area of medical and health sciences and India collaborates 8569 papers out of 16085 total publications, in that case Collaboration Index is:

$$\text{Collaboration Index} = \frac{23.83}{53.27} = 0.44$$

International Collaboration Index is a relative measure of the collaborative activity of an institution at international level. It is calculated using following formulae:

$$\text{Int. Collaboration Index} = \frac{\text{(Share of the int. collaborative papers by institution in its total publications output)}}{\text{(Share of the int. collaborative output by country in its total publications output)}}$$

❖ For Example:

If, university collaborates 750 papers out of 5,286 total publications in area of medical and health sciences and India collaborates 4587 papers out of 16085 total publications, in that case Int. Collaboration Index is:

$$\text{Int. Collaboration Index} = \frac{14.19}{28.52} = 0.49$$

8. Measuring Correlation

The correlation analysis, a statistical technique, is deployed for measuring the strength of association between two random variables. Two sets of data are said to be correlated when any change in one set of data accompany by corresponding change in other. The relative degree of intensity of association between two variables is measured by correlation coefficient. The correlation coefficient is a ratio that expresses the extent to which the two variables are accompanied by the change in concerned variable. The value of correlation coefficient ranges from -1 to +1. When there is a perfect positive correlation, the value of correlation coefficient is equal to +1 and it is -1 in case of perfect negative correlation.

There are a number of methods to calculate correlation coefficients can be calculated. The two most commonly used are Pearson's correlation coefficient and Spearman's rank correlation coefficient. Pearson's correlation coefficient requires both variables to be measured on an interval or ratio scale, and the calculation is based on the actual values. Spearman's rank correlation coefficient requires data that are at least ordinal and the calculation, which is the same as for Pearson's correlation, is carried out on the ranks of the data. Each variable is ranked separately by putting the values of the variable in order and numbering them: the lowest value is given rank 1, the next lowest is given rank 2 and so on. If two data values for the variable are the same they are given averaged ranks.

8.1 Spearman's Rank

Formulae :

Year	Faculty Member (X)	Number of Articles (Y)	Rank x	Rank y	d	d ²
2006	3506	1164	1	3	-2	4
2007	3570	1130	2	2	0	0
2005	3628	1093	3	1	2	4
2008	3722	1330	4	4	0	0
2009	3769	1553	5	5	0	0

$$r = 1 - \frac{6 \sum d^2}{n(n^2-1)}$$

$$r = 1 - \frac{48}{5(25-1)}$$

$$r = 1 - \frac{48}{5(24)}$$

$$r = 1 - 0.4$$

$$r = 0.60$$

8.2 Person's Rank

❖ Formulae :

$$r = \frac{\sum_{i=1}^n (X_i - \bar{X})(Y_i - \bar{Y})}{\sqrt{\sum_{i=1}^n (X_i - \bar{X})^2} \sqrt{\sum_{i=1}^n (Y_i - \bar{Y})^2}}$$

❖ For Example

Year	Number of Downloads (X)	Total Publications (Y)	(X - \bar{X})	(Y - \bar{Y})	(X - \bar{X})*(Y - \bar{Y})	(X - \bar{X}) ²	(Y - \bar{Y}) ²
2005	11189	126	-25030.2	-82.1667	2056645	626509243.4	6751.361
2006	17268	156	-18951.2	-52.1667	988619.2	359146718	2721.361
2007	23797	174	-12422.2	-34.1667	424424	154310224.7	1167.361
2008	44281	248	8061.833	39.83333	321129.7	64993156.69	1586.694
2009	60999	273	24779.83	64.83333	1606559	614040140	4203.361
2010	59781	272	23561.83	63.83333	1504030	555159990	4074.694
Total	217315	1249			6901408	2374159473	20504.83

$$r = \frac{6901408}{\sqrt{2374159473 * 20504.83}} = \frac{6901408}{6977230.417} = 0.99$$

$$r = 0.99$$

9. Summary

Evaluation and measurement of research performance is an important input for policy maker that require transparent and objective evaluation tools and techniques. The objective of this paper is to provide background information to assist the universities / institutions to conduct evaluation of research performance. The paper highlights some of the underlying principles and metrics that are used for evaluation of research performance. First part of the paper indicates needs of assessment of an institute using using of bibliometric indicators for measuring research performance of institute. Paper proposes various formulae and examples related to these indicators. While, this paper restricts itself to enlisting bibliometric indicators for measuring research productivity, there are a number of other parameters that are using for evaluating research performance of an individual or an institute. These indicators include i) institutional strengthening, ii) funds allocation iii) research infrastructure iv) quality assurance v) honours and awards received, etc. A separate paper will be published highlighting all these performance indicators used for performance evaluation of a university in forthcoming issue of this newsletter.

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Independent Day Celebration at INFLIBNET Centre

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



Visitors

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

Jagdish Arora, Director

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. He participated in the meeting of the Board of Study, Department of Library and Information Science, Kashmir University held on 6th July, 2012 as a 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 participated in the meeting convened by the Secretary, Higher Education on 21st August, 2012, consequent to his presentation on activities and services of the Centre to the Honourable Minister of Human Resource Development. Dr. Arora was invited to deliver a 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. He attended the meeting of the Research Council of NISCAIR held on 8th Sept., 2012 as its member.

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.

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. Shri Rai, also delivered lecture about access to e-resources through National Library and Information Services Infrastructure for Scholarly Content (N-LIST) at Manipur University, Manipur during the five-day National workshop on "User Awareness Programme on Access to Library Resources" organized by Manipur University Library in collaboration with the National Library, Kolkata, 18th-22th September 2012.

Yatrik Patel, Scientist D (CS)

Shri Yatrik Patel, Scientist-D (CS) was invited to participate on "Digital Archives and Resources" during the workshop on "Consultation on Indian Languages in Higher Education: Feasibility and modalities of a multi-institutional Project" organised by School of Education, Tata Institute of Social Sciences, Mumbai during 27th - 28th July, 2012. Shri Patel, also delivered a talk on "Information Security" during one-day state level seminar on "E-Resources: Access, Control and Maintenance" organized by K K Shah Jarodwala Maninagar Science College, Ahmedabad on 25th August, 2012.

Vaishali Shah, Scientist B (LS)

Smt. Vaishali Shah, Scientist B (LS) delivered a talk on N-LIST during the three-day Workshop on 'Promotion of Culture of Quality through Research' at shri Popatlal Dhanjibhai Malaviya College of Commerce (PDMC), Rajkot from 12th to 14th April, 2012. The workshop was organised by the Knowledge Consortium of Gujarat. Smt. Shah also attended a state-level Seminar on "E-Resources: Access, Control and Maintenance" an initiative to orient libraries of academia at K K Shah Jarodwala Maninagar Science College, Ahmedabad on 25th August 2012.

P. Kannan, Scientist B (LS)

Shri Kannan P. Scientist B (LS), INFLIBNET Centre, Ahmedabad delivered lecture about access e-resources through National Library and Information Services Infrastructure for Scholarly Content (N-LIST) during One-Week Orientation Programme for Lecturer organized by Internal Quality Assurance Cell, Layola College, Chennai during 8th-13th June 2012.

Kruti Trivedi, Scientist B (LS)

Ms. Kruti Trivedi, Scientist B (LS) delivered a talk on N-LIST during one-day state-level seminar on "E-Resources: Access, Control and Maintenance" Organized by K K Shah Jarodwala Maninagar Science College, Ahmedabad on 25th August, 2012.



सुविधि और इन्फिलबीनेट सेंटर के बीच हुआ एमओयू

इंटरनेट पर थीसिस ऑनलाइन करने वाला देश का 55 वां विश्व विद्यालय

उदयपुर 10 अक्टूबर (विश्वनाथ) सुखाड़िया विश्वविद्यालय और इन्फिलबीनेट सेंटर अहमदाबाद के बीच मंगलवार को एक एमओयू का हस्ताक्षर किया गया जिसके तहत सुविधि के डिजिटल थीसिस में एमओयू का हस्ताक्षर किया गया। सुविधि के डिजिटल थीसिस में एमओयू का हस्ताक्षर किया गया। सुविधि के डिजिटल थीसिस में एमओयू का हस्ताक्षर किया गया।



अब ऑनलाइन होंगे हमारे शोध

एमओयू : शोधगंगा वेबसाइट पर देख के 55 विधि के शोध कर्ता सुखाड़िया में देखे जा सकेंगे

उदयपुर 10 अक्टूबर (विश्वनाथ) सुखाड़िया विश्वविद्यालय और इन्फिलबीनेट सेंटर अहमदाबाद के बीच मंगलवार को एक एमओयू का हस्ताक्षर किया गया। सुविधि के डिजिटल थीसिस में एमओयू का हस्ताक्षर किया गया। सुविधि के डिजिटल थीसिस में एमओयू का हस्ताक्षर किया गया।

नेट पर शोध वाला 55 विश्वविद्यालय बना

सुखाड़िया विधि इन्फिलबीनेट सेंटर से हुआ एमओयू

उदयपुर 10 अक्टूबर (विश्वनाथ) सुखाड़िया विश्वविद्यालय और इन्फिलबीनेट सेंटर अहमदाबाद के बीच मंगलवार को एक एमओयू का हस्ताक्षर किया गया। सुविधि के डिजिटल थीसिस में एमओयू का हस्ताक्षर किया गया। सुविधि के डिजिटल थीसिस में एमओयू का हस्ताक्षर किया गया।

संभागीय आयुक्त लेंगे चार सत्रों में समीक्षा बैठक

उदयपुर 10 अक्टूबर (विश्वनाथ) उदयपुर में चार सत्रों में समीक्षा बैठक का आयोजन किया गया। सुविधि के डिजिटल थीसिस में एमओयू का हस्ताक्षर किया गया। सुविधि के डिजिटल थीसिस में एमओयू का हस्ताक्षर किया गया।

संशोधन के कृति चर्चा के तहत शोध गंगा

उदयपुर 10 अक्टूबर (विश्वनाथ) सुखाड़िया विश्वविद्यालय और इन्फिलबीनेट सेंटर अहमदाबाद के बीच मंगलवार को एक एमओयू का हस्ताक्षर किया गया। सुविधि के डिजिटल थीसिस में एमओयू का हस्ताक्षर किया गया। सुविधि के डिजिटल थीसिस में एमओयू का हस्ताक्षर किया गया।

पीअेथी थीसिसमें उठांतरी रोकवाना भागडूरे

युजसीनी अेजन्सी शोधगंगा

अने युनिवर्सिटी वर्ये अेमओयु

उदयपुर 10 अक्टूबर (विश्वनाथ) सुखाड़िया विश्वविद्यालय और इन्फिलबीनेट सेंटर अहमदाबाद के बीच मंगलवार को एक एमओयू का हस्ताक्षर किया गया। सुविधि के डिजिटल थीसिस में एमओयू का हस्ताक्षर किया गया। सुविधि के डिजिटल थीसिस में एमओयू का हस्ताक्षर किया गया।

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थीसिस को ऑनलाइन करने के लिए आज होगा एमओयू

दुनिया में कहीं भी देखे जा सकेंगे सुविधि से हुए शोध

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अेमओयु आड तमाम रिसर्च डिजिटलाड

शोधगंगा सार पर मुक़ादे सुनि. नां रेशोधनी

उदयपुर 10 अक्टूबर (विश्वनाथ) सुखाड़िया विश्वविद्यालय और इन्फिलबीनेट सेंटर अहमदाबाद के बीच मंगलवार को एक एमओयू का हस्ताक्षर किया गया। सुविधि के डिजिटल थीसिस में एमओयू का हस्ताक्षर किया गया। सुविधि के डिजिटल थीसिस में एमओयू का हस्ताक्षर किया गया।

TIMES CITY

THE TIMES OF INDIA, AHMEDABAD | WEDNESDAY, JULY 11, 2012

MSU to join UGC's Shodhganga project to curb plagiarism

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'शोध गंगा' व्याप्ति व्यासलय

अ-संशोधन लक्ष्य 3500 संशोधन प्रबंध

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