



# INFLIBNET NEWSLETTER

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# IRINS

INDIAN RESEARCH INFORMATION NETWORK SYSTEM

## Article

### Federated Research Profile Management for Researchers in India: Indian Research Information Network System (IRINS)

Kannan P<sup>1</sup>, Siva Shankar Kimidi<sup>2</sup> and Jagdish Arora<sup>3</sup>

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## From Director's Desk

Innovation, its commercialization and university-industry interactions are two important agenda for universities and governmental policies for several decades. Commercialization of innovative knowledge generated in universities involves developing new innovative ideas, its conversion into new or improved products, processes and services and putting them into marketplace. It is considered as unification of academic and commercial cultures with an ultimate aim of make returns on investment made by the society on universities and public-funded research institutions (PRIs). Research commercialization can be viewed as academic entrepreneurialism that encourages commercial exploitation of innovative research, as an alternate to traditional “Mertonian” model that emphasizes on disinterested research.

A wide variety of channels for commercialization of innovative research are being used by universities and public-funded research institutes. Some of these channels are in existence for centuries, while others are comparatively new. These channels of commercialization are: Consulting, Staff Exchange, Testing and Interface Standards, Innovation Disclosures, Patenting and Licensing, Industry-Partnered Collaborative Research, Technology Research Partnerships, Contract Research, Business Incubators, Start-ups, Company Spin-offs and Company Formation by Students.

Hon'ble Prime Minister of India has declared decade 2010-20 as the "Decade of Innovation", to unleash the creative potential of every Indian. India has already been improving on global stage in terms of Innovation Ranking from 86<sup>th</sup> place, 5 years ago, to 57<sup>th</sup> place this year. Ministry of Human Resource Development (MHRD), Govt. of India has introduced "**Atal Ranking of Institutions on Innovation Achievements (ARIIA)**" to systematically rank education institutions and universities on innovation related indicators with an aim to inspire Indian institutions to reorient their mind-set and build ecosystems to encourage high quality research, innovation and entrepreneurship. I am happy to inform that the INFLIBNET Centre has been assigned the task of executing **Atal Ranking of Institutions on Innovation Achievements (ARIIA)** for the Innovative Cell of Ministry of Human Resource Development while we continue to execute India Ranking 2019 (NIRF). INFLIBNET Centre, as technical partner, is responsible for designing ARIIA website and web interfaces, setting-up administrative panel, dashboard and deployment of Technical Helpdesk.

I am pleased to inform that seven courses in library and information science offered on SWAYAM platform last year were approved for re-launch for second consecutive year. These seven courses are i.e. Digital Libraries, Knowledge Society, Information Sources, Systems and Services, Information Communication Technology for Libraries, Management of Libraries and Information Centres & Knowledge Centres, Information Storage and Retrieval and Bibliometrics and Scientometrics. These 15-week courses attracted a fairly large number of learners. Launched in July 2018, these seven courses were successfully completed in October, 2018 and examination for these courses are being conducted in December, 2018.

Capacity building of LIS professionals is one of the foremost mandates given to the INFLIBNET Centre. The Centre continued imparting training programmes and workshops on various topics of interest during the period under report. Two training programmes on SOUL 2.0 were organised at the INFLIBNET Centre during this period. A five-day INFLIBNET Regional Training Programme on Library Automation (IRTPLA) was organized at Sido Kanhu Murmu University at Dumka, Jharkhand during July, 2018. A User Awareness Programme on Access to e-Resources was organised at Central University of Tamil Nadu, Thiruvavur, Tamil Nadu on 20<sup>th</sup> July 2018. Five specialised Training Programmes and National Workshops of variable durations were organized on various topics including Bibliometric Analysis using R, Research Impact Evaluation and Altmetrics, Creation and Management of IRs using DSpace and EPrints.

At the fag end of my tenure as Director of this prestigious organisation, I would like to convey my sincere thanks to the authorities in UGC and MHRD for their whole-hearted support and generous funding, to my colleagues at the INFLIBNET Centre for their tireless efforts in the success of all our projects, schemes and programmes as well as to the entire LIS community across India for their support and encouragement. I am sure that the UGC would be able to search and select an able hand who would take the institute to newer heights of success.

This issue of the Newsletter includes a feature article on "**Federated Research Profile Management for Research in India: Indian Research Information Network System (IRINS)**" by Mr. P. Kannan, K. Siva Shankar and Jagdish Arora. I am sure that our readers would enjoy going through this issue of the Newsletter.

(Jagdish Arora)

# Training Programme on SOUL 2.0, INFLIBNET Centre, Gandhinagar

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

Gandhinagar during this quarter. These programmes were coordinated by Mr. H G Hosamani, Scientist C (LS), INFLIBNET Centre. 35 participants attended these two training programmes as per the details given below:

| Sl. No. | Name of the Programme              | Date of the Programme                                      | No. of Participants |
|---------|------------------------------------|--|---------------------|
| 1       | 142 Training Programme on SOUL 2.0 | 09 <sup>th</sup> - 14 <sup>th</sup> July 2018              | 15                  |
| 2       | 143 Training Programme on SOUL 2.0 | 27 <sup>th</sup> August to 01 <sup>st</sup> September 2018 | 20                  |



Participants of 142<sup>nd</sup> Training Programme on SOUL 2.0 with the Director and Technical Staff of the INFLIBNET Centre



Participants of 143<sup>rd</sup> Training Programme on SOUL 2.0 with the Director and Technical Staff of the INFLIBNET Centre

# INFLIBNET Regional Training Programme on Library Automation (IRTPLA)

INFLIBNET Regional Training Programme on Library Automation (IRTPLA), Sido Kanhu Murmu University, Dumka, Jharkhand, 02<sup>nd</sup> to 06<sup>th</sup> July 2018

INFLIBNET Regional Training Programme on Library Automation (IRTPLA) was jointly organized by the INFLIBNET Centre, Gandhinagar in collaboration with Department of Library & Information Science, S.K.M. University, Dumka from 02<sup>nd</sup> to 06<sup>th</sup> July, 2018 at Sido Kanhu Murmu University, Dumka, Jharkhand. Prof. Manoranjan Prasad Sinha, Hon'ble Vice Chancellor, Sido Kanhu Murmu University, Dumka, inaugurated programme, which was attended by a large number of participants and invitees. Dr. P.K. Verma, Programme Convener and Director, Department of Library and Information Science, S.K.M. University, Dumka in his inaugural speech, briefed about INFLIBNET Centre and SOUL library automation software. Thirty participants participated in the Workshop from different colleges. Mr. Abhishek Kumar, Scientist-C (CS) and Mr. Kumar Gaurav, Project officer from INFLIBNET Centre, Gandhinagar were the resource persons joined with Dr. P. K. Singh, Librarian,

Central University of South Bihar, Bodh-Gaya, Dr. D. K. Singh, Deputy Librarian, Central University of BHU, Varanasi, Sri Punit Kumar Singh, College Librarian, CMPD College, Allahabad and Shri. Anirban Maji, Technical Assistant, West Bengal Region served as faculty to the SOUL 2.0 software training programme. Handled all 13 technical session and they conducted "hands-on" technical sessions for 30 participants covering major topics involved in SOUL software programme.



**INFLIBNET Regional Training Programme on Library Automation (IRTPLA), Sido Kanhu Murmu University, Dumka, Jharkhand**



# User Awareness Programme on Access to E-Resources

## One Day User Awareness Programme on Access to E-Resources, Central University of Tamil Nadu, Thiruvarur, 20<sup>th</sup> July 2018

The Central Library, Central University of Tamil Nadu, Thiruvarur in collaboration with the INFLIBNET Centre, Gandhinagar, organised a One-day User Awareness Programme on Access to E-Resources on 20<sup>th</sup> July 2018 in the Central Library for all the faculty members, research scholars, students of Central University of Tamil Nadu and the library professionals from across the country. Dr.S.Dhanavandan, Deputy Librarian & Head, Central Library, welcomed participants and invitees and briefed about the development of library activities and its services. Prof. S. Ravi, Dean, School of Communication, delivered the thematic address. In his address, he emphasized on importance of e-resources especially the initiatives taken by the Government of India for development

of higher education in India. The programme was inaugurated by Dr. S. Bhuvaneshwari, Registrar, Central University of Tamil Nadu. In her presidential address, she appreciated the initiatives taken by the Central Library for organising such kinds of programmes for the research scholars and all other participants. She emphasised that the supervisors and research scholars must utilize these e-resources through centrally funding by eShodhSindhu. She highlighted the usage of various databases such as SCOPUS, SciFinder, SIAM, EBSCO & IEEE, CSDL. She insisted that the users should make use of e-resources which are facilitated by the Central Library of the University. Prof. S. Nagarajan, Dean, Student's Welfare offered the felicitation in the inaugural function. He



Sh. Ashok Kumar Rai, Scientist D, INFLIBNET Centre Gandhinagar Addressing to Participants in the Seminar Hall, Central Library at CUTN, Thiruvarur

appreciated the initiatives taken by the Central Library staff in the interest of faculty, research scholars and students of the University.

Dr. K. Elavazhagan, Librarian & Chief Knowledge Officer, Indian Institute of Management, Trichy, delivered the keynote address during the inaugural session. In his address, he emphasized that academic libraries should work towards developing a strong knowledge society. Mrs. S. Esakkiammal, Information Scientist, Central

Library, proposed a vote of thanks to all dignitaries and participants.

Post tea break, the first technical session commenced at 11.15 am with a talk by Shri. Ashok Kumar Rai, in which he gave an overview of INFLIBNET, its activities and services, and various e-resources that are being provided to CUTN library through eShodhSindhu Consortium and how effectively these resources are being used. Shri. Ashok Kumar Rai highlighted the advantages e-resources over traditional information resources.

## Specialized Training Programmes/National Workshops/ National Conferences

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### Three-day Training Programme on Bibliometric Analysis using R, INFLIBNET Centre, Gandhinagar, 04<sup>th</sup> - 06<sup>th</sup> July 2018

Three-day Training Programme on Bibliometric Analysis using R was organized from 04th July to 06th July 2018 at INFLIBNET Centre, Gandhinagar. Dr. Kruti Trivedi, Scientist B (LS), Mr. Hitesh Solanki, Scientist B (CS) and Mr. H G Hosamani, Scientist C (LS) coordinated the programme. Dr. Jagdish Arora, Director, INFLIBNET Centre, Gandhinagar inaugurated the programme. The aim of this training programme was to give an overview of bibliometric methods, bibliometric data sources, data processing and performance indicators related to bibliometric analysis and mapping to the participants. Special emphasis was given to perform bibliometric analysis and building data metrics for co-citation, bibliographic coupling,

scientific collaboration analysis and co-word analysis using R Language.

Mrs. Deepti Pandey, Project Officer (LS), Ms. Anita Kushwaha, Project Associate (LS), Mr. Sudam Sahoo, Project Associate (LS), Ms. Shivani Thakur, Project Assistant (LS) and Ms. Vichitra Adidraida, Project Assistant (LS) were resource persons in practical sessions of the training programme. The certificates of participation were distributed at the end of programme. 10 participants including LIS professionals, scientists and research scholars attended the programme. Details of lectures delivered by experts during the training programme were as follows:

| Topics  | Name of the Experts                                    |
|---|--|
| Research Performance Metrics: Calculation & Context | Dr. Kruti Trivedi, Scientist B (LS), INFLIBNET Centre  |
| Advanced Search Techniques of WoS                   | Dr. Kruti Trivedi, Scientist B (LS), INFLIBNET Centre  |
| Advanced Search Techniques of Scopus                | Dr. Kruti Trivedi, Scientist B (LS), INFLIBNET Centre  |
| RStudio: Installation and Operations                | Mr. Hitesh Solanki, Scientist B (CS), INFLIBNET Centre |
| Bibliometrics: Descriptive Analysis using R         | Mr. Hitesh Solanki, Scientist B (CS), INFLIBNET Centre |
| Bibliometrics: Network Analysis using R             | Mr. Hitesh Solanki, Scientist B (CS), INFLIBNET Centre |
| Altmetrics using R                                  | Mr. Hitesh Solanki, Scientist B (CS), INFLIBNET Centre |
| Indian Research Information Network System          | Mr. K. Siva Shankar, Scientist B (LS), INFLIBNET       |



**Participants of Training Programme on Bibliometrics using R, INFLIBNET Centre, Gandhinagar**

## Three-day National Workshop on Research Impact Evaluation and Altmetrics, INFLIBNET Centre, Gandhinagar, 18<sup>th</sup>-20<sup>th</sup> July 2018

Three-day National Workshop on Research Impact Evaluation and Altmetrics was organized at INFLIBNET Centre, Gandhinagar from 18th-20th July 2018. Mr. Pallab Pradhan, Scientist-B (LS) coordinated the Workshop. He welcomed the

participants and highlighted about the Workshop. Two participants attended the programme. Details of lectures delivered by experts during the Workshop were as follows:

| Topics  | Name of the Expert                    |
|---|---------------------------------------|
| INFLIBNET Activities and Services             | Shri Manoj Kumar, Scientist D (CS)    |
| Bibliometrics/Scientometrics Indicators for   | Ms Kruti Trivedi, Scientist B (LS)    |
| Assessing Research Altmetrics: An Overview    |                                       |
| Research Impact Evaluation: Different Aspects | Shri Pallab Pradhan, Scientist B (LS) |
| Altmetrics: An Overview                       | Shri Pallab Pradhan, Scientist B (LS) |

| Topics  | Name of the Expert                       |
|---|--|
| R Basics + rAltmetric: Installation   | Ms. Mitisha Vaidya, Project Officer (CS) |
| Researcher Tools: Altmetric Explorer for Institutions, Altmetric Bookmarklet & Badges | Shri Pallab Pradhan, Scientist B (LS)    |
| Altmetric Explorer for Institutions   | Shri Pallab Pradhan, Scientist B (LS)    |
| Webometric Analyst 2.0: Installation and Practice                                     | Shri Pallab Pradhan, Scientist B (LS)    |
| Webometric Analyst 2.0: Retrieval of Altmetrics Data from Altmetric.com               | Shri Pallab Pradhan, Scientist B (LS)    |
| Webometric Analyst 2.0: Creating Twitter Conversation Networks                        | Shri Pallab Pradhan, Scientist B (LS)    |
| Retrieval of Mendeley Readership Statistics from Mendeley                             | Shri Pallab Pradhan, Scientist B (LS)    |
| Anti-Plagiarism & Urkund Software   | Shri Manoj Kumar, Scientist D (CS)       |



**Participants of National Workshop on Research Impact Evaluation and Altmetrics, INFLIBNET Centre, Gandhinagar**

One-week National Workshop on Creation and Management of IR using DSpace Open Source Software and Library Automation Using SOUL 2.0, B.B.K.KRC, Shivaji University, Kolhapur, 24<sup>th</sup> to 29<sup>th</sup> July 2018

Commemorating the 55 Foundation Day Celebrations of DLISc and Barr. Balasaheb Khardekar Knowledge Resource Center at Shivaji

University, Kolhapur, “One-week National Workshop and Training Course on “Creation and Management of IR using DSpace Open Source

Software and Library Automation Using SOUL 2.0” was organized in collaboration with INFLIBNET Centre, Gandhinagar, Gujarat during 24<sup>th</sup> to 29<sup>th</sup> July 2018 at Shivaji University, Kolhapur. Hon’ble Pro-Vice-Chancellor Prof. (Dr.) D.T. Shirke inaugurated the workshop, during his presidential address he emphasized on use of latest IT techniques which help in providing better and enhanced services to the library users. He elaborated on importance of use of ICT, consortium-based resource sharing, networking libraries, institutional repositories, digital library developments etc., Dr. Suresh Jange, Deputy Librarian, University of Gulbarga and Sh. H G Hosamani, Scientist-C (LS), INFLIBNET Centre

were present in the inauguration ceremony. Dr. S. R. Lihitkar, HOD, Professor of DLISc, Shivaji University gave introductory remarks and briefed the objectives of the workshop.

Dr. Suresh Jange, Deputy Librarian, University of Gulbarga took the first technical session and delivered a talk about ‘Institutional Repositories in India’. Sh. H G Hosamani, Scientist-C (LS), briefed in his presentation about the INFLIBNET activities and services. Shri. Swapnil Patel, Scientist-B (CS) and Shri. Vijaykumar Shrimali, STA-I (CS) from INFLIBNET Centre handled all 20 technical session and they conducted “hands-on” technical sessions for 39 participants covering major topics involved in DSPACE and SOUL software.



**Participants of One-week National Workshop on Creation and Management of IR using Dspace Open Source Software and Library Automation Using SOUL 2.0, Shivaji University, Kolhapur**

## Three-day National Workshop on Creating and Managing Digital Libraries using EPrints, INFLIBNET Centre, Gandhinagar, 08<sup>th</sup> to 10<sup>th</sup> August 2018

Three-day National Workshop on Creating and Managing Digital Libraries using EPrints was organized at INFLIBNET Centre, Gandhinagar from 8<sup>th</sup> to 10<sup>th</sup> August 2018. Mrs. Vaishali Shah, Scientist-B (LS) and Mr. K Siva Shankar, Scientist-B (LS), INFLIBNET Centre coordinated the Workshop. Dr. Jagdish Arora, Director, INFLIBNET Centre inaugurated the Workshop. During inaugural Session, Mrs. Vaishali Shah briefed about the Workshop and about Eprints. Mr. K Siva Shankar extended a formal vote of thanks. Ten

Participants from Karnataka, Bihar, Maharashtra and Madhya Pradesh attended the programme including six students from Sarojini Naidu Government Girls PG College, Bhopal. The National workshop covered theoretical and practical sessions on EPrints. Ms. Vaishali Prajapati and Mr. Vijay Shrimali were resource persons during practical sessions. Details of the lecture delivered by experts during the Workshop were as follows:

| Topics  | Name of the Experts                      |
|---|--|
| INFLIBNET Activities and Services                                     | Sh. Manoj Kumar K, Scientist-D (CS)      |
| Institutional Repositories a Primer                                   | Sh. Yatrik Patel, Scientist-D (CS)       |
| Metadata Standards and Institutional Repositories                     | Smt. Vaishali Shah, Scientist-B (LS)     |
| Introduction to Linux and Understanding File System                   | Sh. Vijaykumar M. Shrimali, STA – I (CS) |
| Layout, Creation of User and Group, and Basic Commands                |  |
| System Layout, Creation of User and Group, and Basic Commands         | Sh. Vijaykumar M. Shrimali, STA – I (CS) |
| Understanding EPrints (Features, Statistics, Bazaar, Altmetrics etc.) | Sh. K Siva Shankar, Scientist-B (LS)     |



Participants of the National Workshop on Creating and Managing Digital Libraries using Eprints, INFLIBNET Centre, Gandhinagar

## Three-day National Workshop on Creating and Managing Digital Libraries using EPrints, Department of Library, Vellalar College for Women (Autonomous), Erode, Tamil Nadu, 6<sup>th</sup> to 8<sup>th</sup> September 2018

Three-day National workshop on “Creating and Managing Digital Libraries using EPrints” was organized by the Department of Library, Vellalar College for Women, Erode in collaboration with INFLIBNET Centre, Gandhinagar, Gujarat from 6<sup>th</sup> to 8<sup>th</sup> September 2018. 40 participants participated in the Workshop from various institutions. Dr. N. Maragatham, Principal, Vellalar College for Women delivered the welcome address. Dr.R. Sarangapani, University Librarian, Arignar Anna Central Library, Bharathiar University, Coimbatore delivered the inaugural address. In his address he stated that the Workshop will serve as a platform for the library professionals to get exposed to the new ideas and share their knowledge, experience and perspectives. Sh. V. Raja, Scientist-B (LS), INFLIBNET Centre, Gandhinagar, made a

presentation on theme of the Workshop. Ms. Sivamani, Librarian and the Organizing Secretary, Vellalar College for Women, thanked the participants and invitees. Dr. R. Sarangapani, University Librarian, Arignar Anna Central Library, Bharathiar University, Coimbatore elaborated on the role of plagiarism in higher education and Dr. N. Subramanian, University Librarian, Periyar University, Salem spoke about the role of INFLIBNET Centre for digital library initiatives. He also elaborated on e-Shodh Sindhu and e-resources made accessible to Universities and Colleges through e-Shodh Sindhu.

Sh. V. Raja, Scientist-B (CS), INFLIBNET Centre and Coordinator of the National Workshop described the importance and role of institutional repositories



**Participants of National Workshop on Creating and Managing Digital Libraries using Eprints, Vellalar College for Women (Autonomous), Erode, Tamil Nadu**

in his presentation entitled 'Institutional Repositories: A Primer'. He explained about open source software EPrints and its features comprising of various plugin tools via, Usage Statistics, EPrints Bazaar, Altmetrics, etc. He also imparted "hands-on" training session on Creation of IR using EPrints and its Installation, Administration, Submission of

records in the repository and Advanced Configuration. Shri. B. Karthick, IISc, Bengaluru, illustrated the steps involved in taking and maintaining the database backup and how to recoup the Institutional Repository from the backup.

## Meetings of the 27<sup>th</sup> Finance Committee and 35<sup>th</sup> Governing Board, INFLIBNET Centre

The 27<sup>th</sup> Meeting of the Finance Committee and 35<sup>th</sup> Meeting of the Governing Board of INFLIBNET Centre was held in the Board Room of INFLIBNET Centre, Gandhinagar on Tuesday, 24<sup>th</sup> July 2018 at 12:00 Noon and 12:45 PM respectively. Prof. Yogesh Singh, Chairman, Governing Board, INFLIBNET, Vice-Chancellor, Delhi Technological University and Former Vice-Chancellor of M S University, Baroda chaired both the Meetings. The Chairman of Governing Board, INFLIBNET Centre

was appointed after a gap of almost two years, i.e. after Prof. N Mukunda completed his term in February 2016. Soon after both the Meetings, Prof. Yogesh Singh interacted with the core staff of the Centre in the Training Laboratory II. He visited the infrastructural facilities at the Centre including: Auditorium, Database Management R & D, Data Centre / Shodhganga and Library / Walk-in User Area.



Chairman and Members of Governing Board of INFLIBNET Centre with Staff



## New Project @ INFLIBNET Centre

Atal Ranking of Institutions on Innovation Achievements (ARIIA) is an initiative of Ministry of Human Resource Development (MHRD), Govt. of India to systematically rank all major educational institutions and universities on indicators related to promotion of “Innovation and Entrepreneurship Development” amongst their students and

faculties. INFLIBNET Centre, Gandhinagar being a technical partner, INFLIBNET will be responsible for designing ARIIA website and web interfaces creating of administration panel/dashboard and deployment of Technical helpdesk.

## Independence Day

The INFLIBNET Centre celebrated India's 72<sup>nd</sup> Independence Day on 15<sup>th</sup> August 2018, to pay tribute and remember all the freedom fighters who had contributed and fought for the Independence of India. The National Flag was hoisted by Shri. Manoj Kumar K, Scientist D (CS), INFLIBNET

Centre. He addressed the staff members and their families about the activities of the Centre. Shri H G Hosamani, Scientist C (LS) and Shri Abhishek Kumar, Scientist C (CS) were also present in the ceremony.



72<sup>th</sup> Independence Day

## Federated Research Profile Management for Researchers in India: Indian Research Information Network System (IRINS)

Kannan P<sup>1</sup>, Siva Shankar Kimidi<sup>2</sup> and Jagdish Arora<sup>3</sup>

India has witnessed a huge growth in its higher education system as well as in its R & D and industrial infrastructure since its independence in 1947. Research and development activities are being performed in all these institutions across spectrum of all subject categories. The objective of this article is to elaborate upon a unique Indian Research Information Management System (IRINS) developed by the INFLIBNET Centre which can be used as a common platform across all educational and research institutes in Indian higher education sector. The IRINS could be used effectively for efficiently measuring and benchmarking research output of individual institute as well as across institutions.

### 1. Introduction

Academic institutes, research and development laboratories etc., are the hubs where research takes place on day-to-day basis across all major subject areas. The research activities and its findings are made accessible publicly to the research community across the World through different channels of publications. that are available to researchers to publish their research findings for the benefit of their research community all over the globe. The first and foremost channel of publications that is used by most of the academicians and research fraternity is journals. Research published in top-tier, high impact factor journals fetches greater visibility to his / her research as well as to researchers themselves in their respective subject area. Every subject discipline has a number of top-tier, high-impact research journals published by prestigious commercial publishers, scholarly societies, university presses, etc. that publish research

articles after it go through a process of peer review by experts in their respective disciplines. Research publications plays a major role in scientific research and are key source in creating a network of researchers in a given discipline. In this direction, Information and Library Network Centre (INFLIBNET) Centre developed a database called "VIDWAN: Expert Database and National Researcher Network" which is a premier database of research profiles of scientists / researchers and faculty members working in leading academic institutions and Research & Development organisation involved in teaching and research across India. VIDWAN was developed and maintained by the INFLIBNET Centre with funding from the National Mission on Education through ICT (NME-ICT). The database is being used for selection of panels of experts for various committees, taskforce, etc. set-up by the Ministries / Govt. Departments for monitoring and evaluation purposes.

## 2. IRINS: A New Paradigm

Identity of every individual is associated with its institute, whether it is an institute of higher education, a central science laboratory or an institute of national importance, etc. These institutes can showcase research findings of its core faculty and researchers in their respective domains, which, in turn, increase its own impact. However, maintenance of profiles of individual faculty and researchers is highly cumbersome, tedious and ongoing process. Further, it is much more difficult to view comparative performance of departments or schools with in an institute or across several institutes on various bibliometric parameters at a single instance. Tools that support an interoperable mechanism and provide comparative performance of individual faculty members, departments or schools on various bibliometric parameters are not available. As such, faculty and researchers within an institute are not aware of research activities within a department or a school, which, in turn, weakens chances of research collaboration within or across institutes. IRINS serves a common platform that serves as tool to project performance of individuals, departments, schools and an institute on various bibliometric parameters. IRINS is web-based Research Information Management (RIM) service offered by the INFLIBNET Centre, an Inter-University Centre of University Grants Commission, Gandhinagar, Gujarat. IRINS portal facilitates academic, R&D organisations to collect, curate and showcase the scholarly communication activities of their faculty, scientists and scholars and provide an opportunity to create a scholarly network amongst them. The IRINS is offered as free software-as-service to the academic and R&D organisations in India. It supports integration of existing research management system such as HR

system, course management, grant management system, institutional repository, open and commercial citation databases, scholarly publishers, etc. It is integrated with academic identity such as ORCID ID, ScopusID, Researcher ID, Microsoft Academic Search ID, Google Scholar ID for ingesting the scholarly publications and citations from various sources.

### 2.1 Need and Benefits of IRINS

Information on research interest and research output of faculty and scientists in terms of publications, citations and other intellectual output is highly scattered. Since individual scientists enjoy complete freedom to publish their research work independently, institutions may not have knowledge of research activity and research output of their own faculty and researchers. Although several institutions have their own institutional repositories, most of them are scarcely populated since faculty and researcher do not contribute to IRs proactively. Lack of this vital information amongst stakeholders adversely affects networking opportunities amongst faculty and researchers within an organization as well as networking and collaborative opportunities at national and international. Moreover, research communities, academic and R&D organizations are dispersed geographically across the country and across the world. As such, it is very difficult to keep the information flow about research capabilities of individuals, departments, schools and organisations. IRINS eases and facilitates flow of information on research carried out by individual scientists and researchers within an institution or across institutions and its departments and schools. It paves the way for networking, collaboration and better funding opportunity for various research

projects. Moreover, it can be used as an instrument for policy makers and Government to identify expertise available, thrust areas of research, research gaps and define their policies on research funding accordingly. In essence, IRINS could be used effectively by the academic institutions as on

instrument to showcase their research output, expertise, skills, research experience, accomplishments, projects and other scholarly activity. Major benefits of IRINS for different stakeholders are briefed below in Table.1:

| Sl. No | Stake holders           | Benefits   |
|--------|-------------------------|--|
| 1      | Research Scholars       | <ul style="list-style-type: none"> <li>✓ Identifying domain experts for carrying out and furthering their research; and</li> <li>✓ Identify research interest and research focus of the departments and organizations.</li> </ul>  |
| 2      | Faculty & Scientists    | <ul style="list-style-type: none"> <li>✓ Facilitate the faculty members to showcase their research contributions to their peer groups and scholars;</li> <li>✓ Greater exposure of their research contributions to the international community along with bibliometric parameters such as publications, citations, H-index, altmetrics, etc.;</li> <li>✓ Automated process for updating of publications and citations through SCOPUS, CrossRef and ORCID ID;</li> <li>✓ Increased funding opportunities from the national and international agencies; and</li> <li>✓ Strengthen research metadata quality and bring down the redundancy rate in data entry for various assessment system.</li> </ul> |
| 3      | Research Administrators | <ul style="list-style-type: none"> <li>✓ Support the research administrator to build research report, performance assessments and research impact analysis;</li> <li>✓ Serves as a strategic tool to analyse the research progress, fund allocation, research assessment of individual faculty and resource allocation; and</li> <li>✓ Helps in Internal Quality Assurance Cell (IQAC) and National Institutional Ranking Framework (NIRF) Coordinator to generate report for various research assessment.</li> </ul>  |

**Table 1. Benefits of IRINS**

## 2.2 IRINS: Key Features and Functionalities

The IRINS is ready-to-use research information management system that can be used by institutions to showcase research output of individual faculty and researchers. IRINS provides a wide range of functionalities and features using international standards with interoperable protocol. Unique features and functionalities embedded in IRINS are as follows:

- User-friendly Admin dashboard to import data from CSV and Bibtex formats;
- Import publications from academic identities, i.e. SCOPUS ID, Researcher ID, ORCID ID, Google Scholar ID and Microsoft Academic Search ID;
- Increased visibility of research output in terms of publications, citations and H-index at individual, department, school and institute level;
- Solr-based faceted search interface with number of filters to identify domain experts;
- Integration of ORCID ID, Google Scholar ID for showcasing publications and metrics;
- Data analytics such as productivity graph for the department, faculty and co-author network based on contributors;
- Automated ingestion of citation from SCOPUS, CrossRef and social media metrics from altmetrics;
- Automated imbedding of metrics from Google Scholar; and
- Categorization of publications according to their publishing venue (Closed Access, Green OA, Bronze OA and Gold OA)

## 2.3 Promotion and IRINS Instances

The Pondicherry University of (<http://pondiuni.irins.org>) was the first instance of IRINS that was done as a pilot, initially for five departments and later for all its 48 departments

with encouragements of Vice Chancellor of Pondicherry University. The Pondicherry University's IRINS instance consists of 358 faculty members and 4,336 scholarly resources including journal articles, conference proceedings, chapters in books and books. In terms of research impact, University has 27,350 citations from Crossref and 30,826 citations from SCOPUS. IRINS is one of its major information products to boost University's flagship research output to the research community in the higher education system in India and other parts of the World. Soon after its implementation in Central University of Pondicherry, Indian Institute of Science (IISc), Bangalore were the first amongst prestigious centrally-funded technical institutions to get its IRINS instance implemented followed by Indian Institute of Technology, Madras (IITM).

So far, IRINS is being popularized through words of mouth. Every academician and library professional, associated with INFLIBNET Centre as well as participants of National workshop, training programmes, conferences and conventions are briefed about IRINS and its advantages. Developers of IRINS system went extra mile for setting up IRINS instances for individual institutes. Relevant and requisite data for individual faculty and scientists was gathered from different sources to build IRINS instances for various institutes. IRINS is slowly and gradually making inroads into the higher education system as its awareness and benefits are reaching out to more and more academic institutes in India. Currently, IRINS platform host 11 active instances, and another four instance under process. Table. 2 depicts the current list of IRINS active institutes, Table. 3 provides figure on institutes faculty and their scholarly research output, Table. 4 maps the citations count traced out from Crossref and Scopus citation databases.

| Sl. No. | Institute   | No. of Faculty* | No. of Scholarly Resources* | No. of Crossref Citations | No. of Scopus Citations | IRINS instance URL  |
|---------|---|-----------------|-----------------------------|---------------------------|-------------------------|---|
| 1       | Alagappa University   | 208             | 2077                        | 15937                     | 17285                   | <a href="http://alagappauniversity">http://alagappauniversity</a> |
| 2       | Central University of Punjab                                  | 101             | 713                         | 3768                      | 4123                    | <a href="http://cup">http://cup</a>                               |
| 3       | Central University of Tamil Nadu                              | 91              | 544                         | 915                       | 1008                    | <a href="http://cutn">http://cutn</a>                             |
| 4       | Delhi Technological University                                | 254             | 3544                        | 22747                     | 22769                   | <a href="http://dtu">http://dtu</a>                               |
| 5       | Indian Institute of Sciences                                  | 557             | 27355                       | 309000                    | 362868                  | <a href="http://iiscprofiles">http://iiscprofiles</a>             |
| 6       | Indian Institute of Technology Delhi                          | 615             | 20899                       | 208946                    | 265612                  | <a href="http://iitd">http://iitd</a>                             |
| 7       | Indian Institute of Technology Madras                         | 598             | 21838                       | 211508                    | 259811                  | <a href="http://iitm">http://iitm</a>                             |
| 8       | National Aerospace Laboratories                               | 289             | 1689                        | 18534                     | 21572                   | <a href="http://nal">http://nal</a>                               |
| 9       | National Institute for Interdisciplinary Science & Technology | 77              | 1805                        | 51795                     | 57763                   | <a href="http://niist">http://niist</a>                           |
| 10      | National Institute of Technology Karnataka                    | 222             | 2381                        |                           |                         | <a href="http://nitk">http://nitk</a>                             |
| 11      | Pondicherry University  | 358             | 4336                        | 27350                     | 30826                   | <a href="http://pondiuni">http://pondiuni</a>                     |

Table 2. List of IRINS Instances

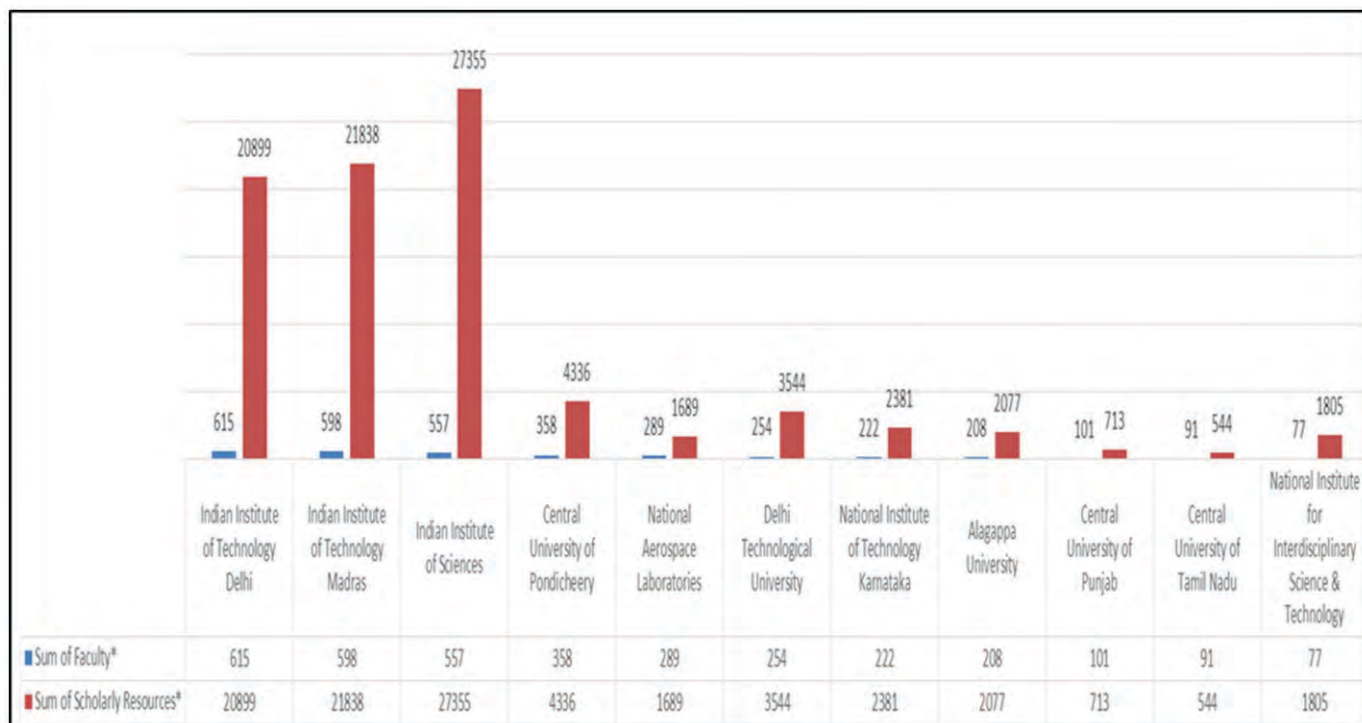


Table 3. IRINS institutes their Sum of Faculty and Scholarly Resources.

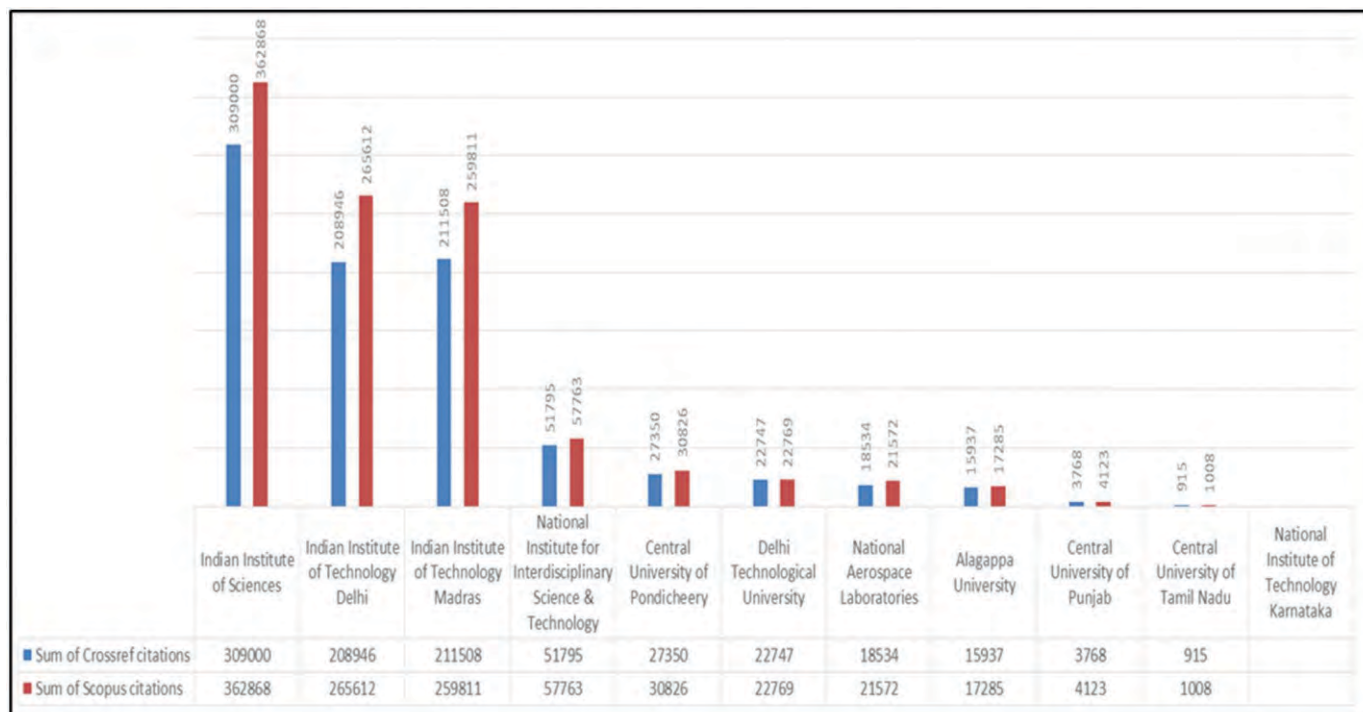


Table 4. IRINS institutes their Citations count

### 3. Data Work Flow

The data in IRINS have categorised into four major components, which includes i) personal information; ii) research output; iii) citation and metrics; and 4) data visualisation. The participating institute provides basic profile information such as personal details, qualification, affiliations, honours & awards, research projects handled and academic identity. Based on the basic profile metadata other requisite components, such as

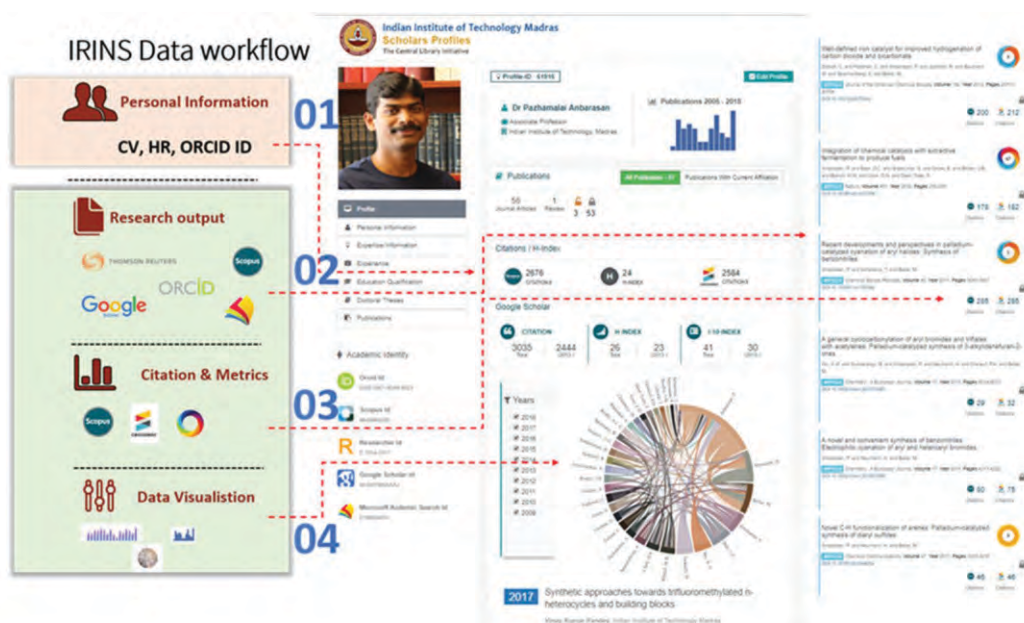


Figure 1. Data Source and Flow of Data in IRINS

research output (publications) and citation metrics are automatically ingested into IRINS and incrementally update periodically. The data visualisation components such as co-author network, research productivity graph and comparison chart generated based on the data consumed from various sources.

Thematic depiction of source of data and data flow in IRINS is given in Fig. 1.

#### 4. Linking the Research

Research is an enterprise that can be done effective only in collaborative mode with other researchers. This can be achieved only when research output and research interest of scientists and faculty is duly curated and made discoverable through a “research hub” to the entire research community within as well as outside the institute. IRINS plays a vital role as a research hub connecting various research landscapes in different subject domains at different level in institutes. The system gathers data for individual profiles from various third-party sources using i) academic identities such as ORCID ID, Research ID, Scopus Author ID, etc.; ii)

publications using DOI and ISBN; iii) research funding using Fund Ref ID, Grant ID; and iv) institutions using ISNI and Ringgold. Fig. 2 depicts integration of various identities into IRINS.

#### 5. Summary - India and IRINS

Open access phenomenon has gathered movement to counter the menace of toll-based access to research publications. It is estimated that 70% of research publications are accessible in open access through various routes. However, due to lack of interoperability and standard format, several publicly available data sources are locked out of public view. The data such as personal information, expertise, publications, projects, grants and accomplishments, etc. are still not easily accessible and utilized. IRINS could effectively be used as a platform to make the data visible, discoverable and can be used for various research data analysis, ranking, project proposals and for making policy decisions. The IRINS is currently available as ‘Software as Service (SAS)’ to all the academic institutions in the country. Intervention of Ministry of Human Resource Development and



Figure 2. IRINS Research Landscape



UGC is required for full-fledged implementation across all institutes including centrally-funded institutions such as Central Universities, IIMs, IITs, IISERs, NITs, etc. This can bring greater visibility to India's research output and its impact in all major subject domains and subject expertise. Once IRINS is implemented in all institutions, a national level single multi-institutional search interface could be developed to compare the research productivity of higher education institutions in our Country.

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1. Deputy Librarian, Central University of Punjab, Bathinda, Punjab
2. Scientist-B (LS), INFLIBNET Centre
3. Director, INFLIBNET Centre

## Staff News

### Dr Jagdish Arora

Dr. Arora delivered the following inaugural, keynote or invited talks during the period under report:

i) 4th Ranganathan Memorial Lecture on “Writing on the Wall: Future of Academic Libraries” at Pandit Ravishankar Shukla University, Raipur on 12th August 2018. The Lecture was jointly organized by Pandit Sundarlal Sharma Library and School of Studies in Library & Information Science, Pandit Ravishankar Shukla University,

Raipur as one of the events in a series of events to be organized on occasion of 150th Birth Anniversary of Dr S R Ranganathan.

- ii) Invited talk on “Ranking of Indian universities” during Elsevier’s Research Connect Forum held at Jaipur on 29th August 2018.
- iii) Inaugural address on “Transformed Libraries: New Role of Librarians”, during SALIS 2018: National Conference on Role of Libraries in Creating a Knowledge Society held at Alagappa

University, Karaikudi, Tamil Nadu from 7th to 9th September 2018.

- iv) Invited talk on “Ranking of Universities: An Indian Perspective” during the National Seminar on “Ranking, Accreditation and Quest for Quality: International Scenario and the Indian Perspective” organized by NAAC, Bangalore on 19th September 2018.

Dr. Arora was also invited to interact with participate during the Round-Table Meeting for India Rankings (NIRF) 2019 organized by the National Board of Accreditation (NBA) at the India Habitat Centre, New Delhi on 8th August 2018.

As a member of the Standing Committee on Notification on Journals, he attended its meeting held at UGC Main Office, New Delhi on 12th September 2018. As a member of the National Steering Committee and National Advisory Committee (NAC) of e-ShodhSindhu, he attended its 4th and 5th Meetings held on 14th August 2018 at Shastri Bhavan, New Delhi. As a member of the Advisory Committee on Documentation Centre of the National Institute of Public Finance and Policy, he attended its first Meeting held at NIPFP, New Delhi on 20th August 2018. He was invited to attend a Meeting convened on 30th July 2018 at NAAC, Bangalore on supplying of data on publications, citations, H Index and other bibliometric parameters by INFLIBNET Centre for institutions that are applicant for NAAC accreditation.

### **Shri Manoj Kumar K**

Mr. Manoj Kumar K, Scientist-D (CS) inaugurated the U.G.C. sponsored “Refresher Course in Library Science for University and College Teachers” on 30th July 2018 at HRDC, Gujarat University in presence of Dr. Jagdish Joshi, Director, HRDC, Smt. Geeta Gadvi, Course Coordinator and Dr. Yogesh Parikh, Co-

Coordinator. He also served as a resource person for the refresher course and delivered a talk on “Shodhganga and Anti Plagiarism Tools”.

### **Shri Abhishek Kumar**

Mr. Abhishek Kumar was invited to deliver a lecture on INFLIBNET activities at VEL Tech University, Tamil Nadu on 21st July 2018. He delivered a lecture on e-Learning & MOOCs at HRDC, Gujarat University on 31st July 2018. On 18th August 2018 he participated in NIRF roundtable meeting for India rankings 2019. He visited NTA on 21st August 2018 for requirement gathering of NTA activities. 4th workshop on SWAYAM Prabha was held on 29th August 2018 and SWAYAM Prabha Newsletter was launched. He presented on production of content for SWAYAM at Maulana Azad National Urdu University (MANU), Hyderabad on 31st August 2018. He delivered a lecture on ‘Digital Library’ to the PG Students of Central University of Gujarat (CUG), Gandhinagar on 7th September 2018. On 10th September 2018 he participated in New project meeting ARIIA (Atal Ranking of Institutions on Innovation Achievements), INFLIBNET Centre, Gandhinagar. Mr. Abhishek also participated as member of Technical Advisory Committee at UGC New Delhi on 19th September 2018.

### **Dr. Kruti Trivedi**

Dr. Kruti Trivedi was invited to attend meeting on NAAC-DVV Issues at NAAC, Bengaluru on 30th July 2018. She was invited to deliver a talk on “Research Impact Metrics: Calculation and Context” during the Refresher Course in Library and Information Science on “Academic Librarianship in New Millennium” at Gujarat University on 7th August 2018. She was also invited as Panellist at Research Connect Forum co-organized by Utkal University and Elsevier Science on 4th September 2018 in Bhubaneswar.

## Shri HiteshKumar Solanki

Mr. Hiteshkumar Solanki was invited to deliver a talk on “Data Handling in R” and “Statistical Methods in R” during Refresher Course in Information Communication Technology (ICT) organized by UGC-HRDC, Gujarat University, Ahmedabad on 17th July 2018. He was also invited to conduct “Hands-on” sessions on Statistical Analysis using R Programming during the Three-Day “Hands-on Training on Reference Management Tools, Statistical Analysis using R and Latex” for Full-time Ph.D. Scholars under the MHRD scheme of Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNTT) organized by Coimbatore Institute of Technology, Coimbatore on 30th and 31st July 2018. He attended Faculty Development Programme on Big Data Analytics organized by MVSR Engineering College, Hyderabad in association with E & ICT Academy, National Institute of Technology, Warangal sponsored by Ministry of Electronics and Information Technology (MeitY), Gol from 7th to 12th August 2018.

## Shri Dinesh Ranjan Pradhan

Sh. Dinesh Ranjan Pradhan, Scientist - B (LS) was invited as a speaker to deliver lecture at the National Workshop on “Publication Ethics and Scientific Writing” held from 5th to 7th July 2018 at Centre for Complementary and Integrative Health, Savitribai Phule Pune University, Pune.

Mr. Dinesh Ranjan Pradhan Receiving momento from Bhushan Patwardhan, Professor, Interdisciplinary School of Health Sciences, Savitribai Phule Pune University

He also delivered a lecture on “Latest trends in e-resources management (procurement, access and evaluation)” for the U.G.C. sponsored “Refresher Course in Library Science for University and College

Teachers” held during from 30-7-2018 to 19-8-2018 at HRDC, Gujarat University, Ahmedabad, Gujarat.



**Mr. Dinesh Ranjan Pradhan Receiving momento from Bhushan Patwardhan, Professor, Interdisciplinary School of Health Sciences, Savitribai Phule Pune University**

## Shri Pallab Pradhan

Shri. Pallab Pradhan, Scientist B (LS) delivered two sessions on Reference Management Tools: Zotero and Mendeley on 30th and 31st July 2018 during the Three-day “Hands-on training on Reference Management Tools, Statistical Analysis using R and Latex” for Full Time Ph. D. Scholars held from 30th July to 1st August 2018 at Teaching Learning Centre (TLC), Coimbatore Institute of Technology (CIT), Coimbatore, Tamil Nadu.

## Shri Raja V

Shri. Raja V, Scientist B (CS) was invited to participate in the Identity and Access Management (IAM) Workshop and Meetings held in conjunction with the 46th Asia Pacific Advanced Networking (APAN) Conference on Sunday 5th – 9th August 2018 at Auckland, New Zealand. He also presented the Indian Access Management Federation updates during the conference. His attendance at this event was funded by the BACKFIRE project within the framework of the European Commission funded Asi@Connect project. He was invited as Guest Lecture at Central University of Gujarat, Gandhinagar



**Mr. Raja V participated in the Identity and Access Management (IAM) Workshop and 46th Asia Pacific Advanced Networking (APAN) Conference, Auckland, New Zealand**

and delivered a talk on “Open Access Initiatives in India and Global and Digital Libraries Models and Theories” during 28th-31st August 2018. He was also invited as a resource person for “One-day Awareness programme on INFLIBNET Activities” on 5th September 2018 held at Erode Arts College, Tamil Nadu. He was invited as a Resource person in UGC Sponsored Course Refresher program for Library and Information Science at Bharathidasan University on 3rd September 2018 and delivered lecture on “Libraries on Cloud and Digital Library Design”.

#### **Mrs Hema V Cholin**

Mrs. Hema Cholin, Scientific and Technical Officer (LS) was invited to deliver a talk on “Digital Preservation” during the U.G.C. sponsored “Refresher Course in Library Science for University and College Teachers” held during 30-7-2018 to 19-8-2018 at HRDC, Gujarat University, Ahmedabad, Gujarat.

#### **Shri Dharmesh Shah**

Mr. Dharmesh Shah was deputed to visit to CtrlS Asia’s Largest Tier 4 Datacentre in Hyderabad during 5th July 2018 to discuss hosting eNBA project on high-end server. He also attended meeting at NBA office, New Delhi during 16th to 18th July to discuss issues related to eNBA project. He visited Indian Institute of Technology Delhi on 29th August 2018 to discuss revamping of ‘Unnat Bharat Abhiyan (UBA 2.0) portal.

# Staff Achievement

## Shri Harish Chandra

INFLIBNET Centre congratulates Mr. Harish Chandra, Administrative Officer for winning the first prize in "Satara Hill Half Marathon 2018" Satara Maharashtra on 02nd September 2018 in his age category of 50 to 60 years on the Hilly terrain of Satara. He also won first prize in 10 Km run for "Stop

Child Trafficking" Organised by City Road Runners Vadodara on 23rd September 2018 and was 1st runner up in 10k Intercity Run Pune held on 30th September 2018 at Pune Maharashtra. Centre takes pride in encouraging him to bring more laurels to the Centre. The Centre wishes him all the best in future events at National and International levels.



# User's Speak

## IRINS

1 Dear Sir,

Accept my heartiest congratulation!! for getting NMEICT - MHRD "IRINS - Indian Research Information Network System " project. It will be one of the Best project INFLIBNET have, It's required great vision and mission and under your guidance and leadership it is a great achievement.

I congratulate and also appreciate hard work put up by Mr. Kannan and his INFLIBNET/Technical team to setup the web-based system and it will be helpful to many ways.

With kind regards,

Dr. Mahendra N. Jadhav  
Librarian, Central Library, IIT Madras, Chennai-600 036  
Contact: 044-2257 4951

2 Dear Sir,

Greetings from IGIDR, Mumbai!

Recently, during a conference, I came to know about INFLIBNET's initiative IRINS through Mr. Shivaram Gowda, Scientist from NAL, who has taken efforts in implementing this at NAL, Bangalore. From the demonstration, I could realize its potential in showcasing the research profile of an organization. I Congratulate you and Mr. Kannan and his associates for initiating this project for the benefit of academic and research organizations. I really appreciate the efforts involved in this project.

With kind Regards,

Shamprasad M. Pujar, PhD

Chief Librarian, Indira Gandhi Institute of Development Research [IGIDR]

Gen Vaidya Marg, Goregaon (East), MUMBAI-400 065, India | Phone: +91-22-2841 6528 | E-mail: pujar@igidr.ac.in

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### Shodhganga

From: Dr. Sudeepa Banerjee <sudeepab@iiswbm.edu>

Date: Thu, Jul 19, 2018 at 3:42 PM

Subject: Re: My Theses

To: Shodhganga Inflibnet shodhganga@inflibnet.ac.in

Thank you Sir,

Overwhelmed by your super quick reply. This is truly an unbelievable response. Shall act according to your kind advise.

Regards and again a big thank you.

Sudeepa Banerjee

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### SWAYAM

From: Shubha <shubha.nagarkar@gmail.com>

Date: Thu, Aug 16, 2018 at 12:19 PM

Subject: Request from Shubhada

To: Dr. Jagdish Arora <director@inflibnet.ac.in>

Dear Dr. Arora,

Our Vice-chancellor added my name in the SWAYAM committee. I am very much interested to know more about it. We have requested all departments to select courses. I need to know about its credits and some more details. As per the instructions and letters we could understand that students can take relevant online course.

I have seen all LIS courses and they are excellent.

Regards

Shubha

Shubhada Nagarkar, Ph.D.

Assistant Professor,

Department of Library and Information Science

Savitribai Phule Pune University, Pune

Email: shubha@unipune.ac.in / shubha.nagarkar@gmail.com | Web site: <http://sites.google.com/site/shubhanagarkar/>

Mobile- +91 9822014134

# ஈரோடு கலை கல்லூரியில் ஒருநாள் பயிற்சி பட்டறை

ஈரோடு, செப். 12-

ஈரோடு கலை மற்றும் அறிவியல் கல்லூரி, நூலகத் துறை மற்றும் தர உத்தரவாத குழு சார்பில், ஒரு நாள் பயிற்சி பட்டறை நடந்தது.

பல்கலை மானியக் குழுவின், ஓர் அங்கமான, குஜராத்தின் இன்பிலிப் நெட், என்று அழைக்கப்படும் தகவல் மற்றும் நூலக இணையத்தின் விஞ்ஞானி ராஜா விஸ்வநாதன் கலந்து கொண்டார்.

இன்பிலிப் நெட் நிறுவனம், 31.35 லட்சம் புத்தகங்கள், 6,000 ஆராய்ச்சி இதழ்களை, இலவச இணைய சேவையாக, நிறுவனம் வழங்கி வருகிறது. இதை ஆசி



ஈரோடு கலை மற்றும் அறிவியல் கல்லூரியில், பயிற்சி பட்டறை நடந்தது. தாளாளர் பாலுசாமி தொடங்கி வைத்தார்.

ரியர்கள், மாணவர்கள் பயன் கேசன் தலைமை வகித்தார். படுத்தி கொள்வது குறித்து, கல்லூரி செயலாளர் மற்றும் பயிற்சி அளித்தார். தாளாளர் பாலுசாமி தொடங்கி வைத்தார். முகாமில், 425 ஆசி

பயிற்சி பட்டறைக்கு, ஈரோடு கலை மற்றம் அறிவியல் கல்லூரி தலைவர் முருகேசன் மற்றும் மாணவர்கள் கலந்து கொண்டனர்

## ‘காங்கேயம் கோட்டத்தில் அறிவிக்கப்படாத மின்வெட்டு’

காங்கேயம் கோட்டத்தில், நந்தி ஆகியோர் கலந்து கொண்டனர்.

பொருளாளர் கே.எம்.வாரணவாசி, அமரேசன், பூபதி, பொதுப் பணித்துறை உதவி பொறியாளர் எம்.பொன்னுசாமி, ஆய்வாளர் ஜோதி உள்பட பலர் பார்வையிட்டனர்.



ஈரோடு கலை அறிவியல் கல்லூரியில்

### நூலகத்துறை பயிற்சி கருத்தரங்கு

ஈரோடு, செப்.13- ஈரோடு கலை மற்றும் அறிவியல் கல்லூரியின் நூலகத்துறை மற்றும் தர உத்தரவாத குழு சார்பில் பயிற்சி கருத்தரங்கு நடந்தது. இதன் தொடக்கவிழா நிகழ்ச்சிக்கு கல்லூரி தலைவர்

யூ.என்.முருகேசன் தலைமை தாங்கினார். கல்லூரி தாளாளர் கே.கே.பாலுசாமி பயிற்சி கருத்தரங்கை குத்துவிளக்கு ஏற்றி தொடங்கி வைத்தார்.

பல்கலைக்கழக மானியக்குழுவின் அங்கமாக குஜராத் மாநிலத்தில் இயங்கி வரும் ‘இன்பிலிப் நெட்’ எனப்படும் தகவல் மற்றும் நூலக இணைய நிறுவனத்தின் விஞ்ஞானி ராஜா விஸ்வநாதன் கலந்து கொண்டு இணைய நூலகங்களை மாணவ-மாணவி

கள் பயன்படுத்துவது, ஆராய்ச்சி இதழ்களை படிப்பது குறித்து பயிற்சி அளித்தார். நிகழ்ச்சியில் கல்லூரி முதல்வர் ரா.வெங்கடாசலம் உள்பட கல்லூரியின் பேராசிரியர்கள், மாணவ-மாணவிகள் கலந்துகொண்டனர். ரா.திருவருட்செல்வி நன்றி கூறினார்.

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