Development of National Digital Library of India

Towards Building a National Asset

NDL: VISION & MISSION

Open Source Software for Library Management (OSSLM 2016)

Central Library
Indian Institute of Technology
Kharagpur

NMEICT: National Mission on Education Through Information And Communication Technology

Prof. PARTHA PRATIM DAS
ppd@cse.iitkgp.ernet.in
Joint PI, NDL Project, NME-ICT, MHRD
Indian Institute of Technology, Kharagpur

13-JUN-2016
BUILD UP
NATIONAL DIGITAL LIBRARY (NDL)
AS A NATIONAL KNOWLEDGE ASSET –

THE KEY DRIVING FORCE FOR EDUCATION,
RESEARCH, INNOVATION, AND
KNOWLEDGE ECONOMY IN INDIA
NDL Mission

TO CREATE A 24X7-ENABLED INTEGRATED NDL AS A UBIQUITOUS DIGITAL KNOWLEDGE SOURCE OF THE NATION – CATERING TO IMMERSIVE E-LEARNING FOR ALL LEARNERS AT ALL LEVELS IN ALL AREAS

TO INITIATE A MOVEMENT FOR INTEGRATED DIGITAL LEARNING ACROSS INDIA
Introduction
Introduction

• National Digital Library
  o will be a national asset that is a key driving force for its education, research, innovation and knowledge economy
  o will cover the gaps that exist in the wide range from literacy to advanced knowledge discovery and development of knowledge
  o will enable integrated knowledge gathering on diverse topics on core issues from economic, strategic and social sectors
  o will help personalized, self-paced, new-age multi-media education at all levels
  o will ...
  o Not a new Library, but an umbrella over existing ones
Challenges faced by India in Education

- Wide geographic expanse & Large population
- Huge number of students – rapidly growing student base
  - Indian HE system is the largest in the world enrolling over 70 million students
- Large number of institutions
  - 1,24,500 secondary schools and over 11 Lakh elementary schools [Source: MHRD – NISG Report]
  - 659 Universities, 33,023 colleges and 11356 Stand Alone Institutions [Source: FICCI HE Summit 2012]
  - India needs to build 6 universities and 270 colleges every month in the next 20 years
- Varied linguistic diversity
- Severe lack of Teachers
- Lagging behind in digital initiatives
  - Lack of quality e-content in various digital forms and formats
  - Poor quality of connectivity due to lack of infrastructure
- ...
NMEICT Objectives

“Catering to the learning needs of more than 50 crore Indians (working population) and of providing a one stop solution to all the requirements of the learning community”

... 

“Knowledge modules based on the personalized needs of the learner would need to be delivered to him / her at the right time with the right content interactively to take care of his / her aspirations”

Initiatives ...

- Generate Contents
- Create Repositories
- Develop Dissemination Channels
- Build Learning Platforms
  - MOOCs Model (Massive Open Online Courses)
- Set-up Infrastructure – NKN, Baadal
- Integrate Stakeholders
- ...

Digital Library Initiatives ... Samples

National
- INFLIBNET
- NPTEL, NMEICT
- NCERT
- Million Book Project (DL of India)
- NISCAIR
- IG Centre for the Arts
- National Mission on Libraries
- MUKTBODHA
- Traditional Knowledge DL
- Other Databases

International
- MIT Open Courseware
- Hathi Trust Digital Library
- Project Gutenberg
- Alexandria DL, California DL
- Networked DL of Thesis
- Library of Congress
- National Science DL
- Digital Public Library of America
- Electronic Library of UK
- DL Programme of Europe
- Others in Asia & Australia
In spite of so many initiatives, benefits are yet to reach the masses due to several reasons including:

- Repository Service Issues
- Integrated Learning Issues
Repository Issues

- Users have to visit individual websites to access e-resources. No single window search facility for accessing all available digital resources
- Users need to learn retrieval techniques / search techniques separately as different Digital Library (DL) follows different DL software
- User interfaces, often, are not interactive, collaborative and participative
- Few mechanisms are available for differently abled learners
- Absence of vernacular access & limited contents
- Knowledge Repository on most subjects are not yet available for scholars
Integrated Learning Issues

- Few e-Learning environments for the students and teachers that access information from all available sources
- Distance mode of learning in India is helping mainly to increase learner-base not the knowledge-base as effectively as needed
- Non-integration of learner-learner, teacher-teacher and teacher-learner communication tools within learning environment
- Learning resources are generally outside the integrated learning environment
NDL Proposal
Context – Five Laws of Library Science

- Books are for use
- Every reader his [or her] book
- Every book its reader
- Save the time of the reader
- The library is a growing organism

Shiyali Ramamrita Ranganathan
National Digital Library

Digital Repository

- Authoring Services
- Acquisition Services
- Dissemination Services

Digital Library

- Learning Services
- Personalization Services
- Localization Services
- Open Services ...

National Digital Digital Library

Content Creation
Content Search
Learning Content
Experience-based Learning
Multi-Lingual Content
Mobile Apps

Content Borrowing
Content Access
Multi-faceted Interface
APIs
NDL – Integrated Services to “The Nation & World Wide”

Search Services
- Classified Search
- Subject Based Search
- Multilingual Search
- Metadata Search
- Full Text Search
- Ranking of Search Results

Community Service
- Every reader his [or her] eBook/Information
- S R Ranganathan 2nd Law of library science
- Research Scholars
- University Students
- College Students
- School Students
- Teachers
- Professionals
- General Users

External Services
- DDS (Document Delivery Service)
- Personalized services
- Union Catalogue

Learning Services
- Integration with E Learning Environment

Plug & Play Apps
- Apps for Differently abled users
- Mobile Apps
- Search Apps

Any Device Any Where

NDL Content Repository

Storage & Backup Replication

IIT, Kharagpur

13/06/2016
Objective & Scope
Objectives

- **Create a 24X7-enabled Infrastructure** for NDL with single window search facility – To include h/w systems, networks, s/w tools, applications and interoperability standards
- **Harvest IDR**s (Institutional Digital Repository) across institutions of the nation to provide integrated access
- Facilitate select institutes to disseminate existing content and create new digital content
- Provide support for immersive E-learning environments at multiple levels spanning across
  - **All academic levels** – school to college to university to life-long learning
  - **All disciplines** – Science, Arts, Humanities, Engineering, Medical, Law, and
  - **All languages** (vernacular) used as medium of instruction.
- Support **interfaces in vernacular & for differently abled users**
Target Users

- School, College, and University Students
- Research Scholars
- Teachers
- Library Users
- Professional Users e.g., Legal Community Users
- Differently-Abled Users
- Life-long learners
Institutional Digital Repository of Contributing Institutes

**Range of Contents**

- Faculty Publications, ETD (Electronic Thesis & Dissertation): DSc-PhD-Masters-Undergrad, Research Projects
- Books & Periodicals, Open Access Journals, E-Books & Subscribed E-Resource
- Annual Reports, Project Reports, Convocation, Working Papers, Others
- Encyclopaedia Dictionaries Directories Others
- Lecture Slides, Videos, Class Notes, Courseware
- Term Papers, Assignments, Solutions
- Lab Experiments, Manuals, Case Studies
- Question Banks (JEE / GATE / NET / CAT), Model Answers
- Institutions of School & Higher Education, Boards
- Research and Professional Institutions, Central / State University
- Institutional and Open Contributions. Multi-modal, Multi-faceted
- Datasets, Benchmarks, Models, Maps, Software
- Manuscripts, Painting, Sculpture, Music, Dance, Drama
- Audio & Video Content

IIT, Kharagpur

13/06/2016
The Big Picture

- National Digital Library
- MOOCs
- LMS
- Virtual University and Certification
Methodology
How to NDL?

- How to get content?
- How to generate metadata?
- How to profile users?
- How to have MOOCs courses?
- How to get license?
- How to ...?
- How to ...?
- ...

- We hope to do it with help from you all ...
Host, Contributing & Participating Institutions

Central Harvesting Server

Data Centre Server

Mirror Server

Co-ordinating Host Institution NDL @IIT Kharagpur
Contributing Institutes
- Existing Contents of IDR Developed by various Institutions / DL Projects
- Contents from Contributing Institute’s IDR

Participating Institutes

IIT, Kharagpur 13/06/2016
Institutions

Host Institution

• IIT Kharagpur

Contributing & Participating Institutions

• INFLIBNET
• IITs / NITs
• IISc Bangalore
• IIMs / XLRI / Management School
• IISERs
• Central Universities
• Law School
• AIIMS / Medical Colleges
• Schools from KVS / NVS
• National Archives / Library
• Non-MHRD Institutions (Min of Law, Min of Culture, ISI, etc.)
• Private Schools, Colleges & Universities
With help from you all ...

- Contributing Institutions
  - CIs setup IDRs
  - CIs regularly upload content
  - Host harvests and indexes content for NDL

- NMEICT Projects
  - Contributed to NDL
  - Crawled

- External Projects / Publishers / Voluntary Contributors
  - Crawled
  - Subscribed

- National Licensing
  - Institutional Level
  - Open and Free

- Participating Institutions
  - PIs use NDL and provide feedback

- Open Source / Free Domain Developers
  - Mobile Apps
  - Vernacular Support
Methodology

- Identification of learning objects on global scale
- Selection of contributing and participating Institutes at various levels
- Detailing of Hardware Architecture
- Standardization of Metadata Envelop
- Development of a composite Software Architecture
  - Digital archive to Store learning objects
  - Learning Content Management System (LCMS) to provide teaching-learning-evaluation functionalities
  - Experience Tracking for Users
  - Search and retrieval layer with Indic-script-enabled user interface
Methodology

- Selection and creation of course contents for school and higher education students
- Selection of learning objects and incorporation of metadata
- Testing and debugging of NDL
- Participatory adoption across the nation
Metadata Harvesting from various IDR

Higher Learning Institutions
- IDR @ IITs
- IDR @ NITs
- IDR @ CU
- IDR @ Law Schools
- IDR @ Medical Colleges
- IDR @ KVS
- IDR @ NVS
- IDR @ Law Schools
- IDR @ Medical Colleges
- IDR @ KVS
- IDR @ NVS
- Navodaya Vidyalaya Samiti
- Kendriya Vidyalaya Sangathan
- Other School Boards

Navodaya Vidyalaya Samiti
Kendriya Vidyalaya Sangathan
Other School Boards

OAI-PMH Protocol
Dublin-Core
Metadata Format

Central Harvesting Server
@NDL IIT KGP

Community Access
- Research Scholars
- University Students
- College Students
- School Students
- Teachers
- Law & Medicine Professionals
- Life-long Learners
- General Users

Device Access
- PC
- Tablets
- Laptops
- Mobiles
- Etc

Content Delivery Server
@NDL IIT KGP
IDR Service

• What is IDR Service?
  o NDL will provide hosting for IDR, if needed
  o Details on NDL Project Page
  o Hosting service is based
    ▸ virtual servers loaded with 64-bit Ubuntu 14.04
    ▸ DSpace (V5.2) Content Management System (Default interface)
    ▸ PostgreSQL database engine and default DSpace User Interface.
    ▸ Metadata registry as per NDL metadata schema
    ▸ OAI-PMH (V2) is enabled to support harvesting of metadata
    ▸ External connectivity is rendered through NKN

• Scope
  o Available for limited number of small institutions
  o Limited to 5 GB space to upload e-contents and metadata
  o No Shell access or customizable UI (logo & header allowed)
  o Available for 2 years only
IDR Service

• Institutional Eligibility
  ○ Is affiliated with or accredited by a Central or State education body
  ○ Has at least 500 learning e-contents with metadata
  ○ Agrees to populate metadata as per NDL metadata schema
  ○ Permits access of its IDR to NDL for harvesting metadata
  ○ Extends archiving rights to NDL (harvested metadata & contents)
  ○ Allows searching, browsing & downloading for educational purpose
  ○ Maintains backup of all metadata and contents

• How to Apply?
  ○ Download form from NDL Project
  ○ Head of the Institute to identify and assign anodal officer to coordinate with the Team NDL
  ○ Agreement to be signed by the Institute with NDL
Open Issues

- Copyright Management
- License Management
- Crowd-Sourcing Promotion Policy
- Infrastructure Issues
- ... (audience to identify)
NDL Live:  
https://ndl.iitkgp.ac.in/

NDL on Facebook:  
https://web.facebook.com/NDLIndia/

NDL Project:  
http://www.ndlproject.iitkgp.ac.in/ndl/
Registration Page

Registration instruction

Registration has been opened only for following mail domains:
ac.in ernet.in  gov.in  nic.in  res.in

OK

Full Name *
E-mail ID *
Password *
Confirm Password *
Date of birth
Gender

IIT, Kharagpur
## New User Registration

<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Name</td>
<td>Partha Pratim Das</td>
</tr>
<tr>
<td>E-mail ID</td>
<td><a href="mailto:ppd@see.iitkgp.ernet.in">ppd@see.iitkgp.ernet.in</a></td>
</tr>
<tr>
<td>Password</td>
<td>*</td>
</tr>
<tr>
<td>Confirm Password</td>
<td>******</td>
</tr>
<tr>
<td>Date of birth</td>
<td>1961 JULY 30</td>
</tr>
<tr>
<td>Gender</td>
<td>Male</td>
</tr>
</tbody>
</table>

*Required fields marked with an asterisk (*). The e-mail ID is your login ID. The password is case-sensitive.
Transport, magnetic, and Sn-119 Mossbauer studies on magnetically ordered valence fluctuating compound SmRuSn3

Title: Transport, magnetic, and Sn-119 Mossbauer studies on magnetically ordered valence fluctuating compound SmRuSn3

Author: MAZHIDAR, C; HOSSAIN, Z; NAGARAJAN, R; GODARTE, C; DHAR, SK; GUPTA, LC; RADALIA, BD; VIJAYARAGHAVAN, R

Abstract: SmRuSn3 is a unique compound among the known Sm-based valence fluctuation (VF) systems. Its crystallographic structure has two inequivalent Sm sites and Sm ions at only one of them are in VF state while the Sm ions in the other site orders magnetically. Our (119)Mossbauer studies show a quadrupolar splitting at the Sm site, consistent with the noncubic symmetry of the Sm site. A broadening of the Mossbauer spectrum is seen due to magnetic ordering of the material. The transferred hyperfine field at Sm site at 4.2 K is small. (C) 1996 American Institute of Physics.

URI: http://dx.doi.org/10.1063/1.361996
http://dspace.library.iitb.ac.in/xmlui/handle/10054/14412
http://hdl.handle.net/100/1441

Date: 1996
## Transport, magnetic, and Sn-119 Mossbauer studies on magnetically ordered valence fluctuating compound SmRuSn3

**Author**  

**Source**  
IIT Bombay

**Content type**  
Text

**Publisher**  
AMER INST PHYSICS

**File Format**  
HTM / HTML

**Language**  
English

**Subject Other**  
cerusn3

**Abstract**  
SmRuSn3 is a unique compound among the known Sm-based valence fluctuation (VF) systems. Its crystallographic structure has two inequivalent Sm sites and Sm ions at only one of them are in VF state while the Sm ions in the other site order magnetically. Our (119)Mossbauer studies show a quadrupolar splitting at the Sn site, consistent with the noncubic symmetry of the Sn site. A broadening of the Mossbauer spectrum is seen due to magnetic ordering of the material. The transferred hyperfine field at Sn site at 4.2 K is small. (© 1996 American Institute of Physics.)

**Other Identifier**  
JOURNAL OF APPLIED PHYSICS, 79(8):6349-6351  
0021-8979  
http://dx.doi.org/10.1063/1.361996  
http://hdl.handle.net/100/1441

---

**IIT, Kharagpur**

10-Jun-16
Transport, magnetic, and $^{119}\text{Sn}$ Mössbauer studies on magnetically ordered valence fluctuating compound SmRuSn$_3$


Citation: J. Appl. Phys. 79, 6349 (1996); doi: 10.1063/1.361996
View online: http://dx.doi.org/10.1063/1.361996
View Table of Contents: http://jap.aip.org/resource/1/JAPIAU/v79/i8
Published by the American Institute of Physics.

Related Articles
Valence fluctuation and electron–phonon coupling in La$_{68-x}$Ce$_x$Al$_{10}$Cu$_{20}$Co$_2$ (x = 0, 34, and 68) metallic glasses
Intermediate valency of Eu in a cubic intermetallic compound Ce$_{0.5}$Eu$_{0.5}$Pd$_3$
Interface and Mn valence effects in ferromagnetic insulating multilayers based on Mn and tin oxide
J. Appl. Phys. 103, 07D129 (2008)
Charge states of strongly correlated 3d oxides: from typical insulator to unconventional electron–hole Bose liquid
The effect of mixed Mn valences on Li migration in LLMn2O4 spinel: A molecular dynamics study
Chapter Five
MAGNETISM AND MATTER
Search Filter Page

Refine search results
Author
Subject
Source
Language
File Format
Learning Resource Type
Educational Level
Difficulty Level
Educational Degree

Magnetic Moment in Magnetic Field I
Source: NPTEL
Author: Das, Prof. Ranjan
Lecture | UG and PG

Abstract: Principles and Applications of Electron Paramagnetic Resonance Spectroscopy by Prof. Ranjan Das, Department of Chemical Sciences, Tata Institute of Fundamental Research, Mumbai. For more details on NPTEL visit npTEL.iitm.ac.in

Magnetic Moment in Magnetic Field II
Source: NPTEL
Author: Das, Prof. Ranjan
Lecture | UG and PG

Abstract: Principles and Applications of Electron Paramagnetic Resonance Spectroscopy by Prof. Ranjan Das, Department of Chemical Sciences, Tata Institute of Fundamental Research, Mumbai. For more details on NPTEL visit npTEL.iitm.ac.in

Magnetism and Magnetic Resonance - Worked Examples
Source: NPTEL
Author: Rangarajan, Prof. G.
Lecture | UG and PG

Abstract: Condensed Matter Physics by Prof. G. Rangarajan, Department of Physics, IIT Madras. For more details on NPTEL visit npTEL.iitm.ac.in

Floating magnet
Source: Khan Academy
Self Learning

Abstract: The discovery of magnetism. What can we do with this invisible force?
## Search Results

### Magnetic properties of W-type ferrites
- **Source**: CSIR-Indian Institute of Chemical Technology
- **Author**: Reddy, N. K.; Mulay, V. N.
- **Urb**: Career/Technical Study

### Structural, optical and magnetic properties of nanocrystalline Zn0.9Co0.10-based diluted magnetic sem...
- **Source**: CSIR-Indian Institute of Chemical Technology
- **Author**: Kalyanakrishni, Y.; Srinivas, K.; Sreedhar, B.;...
- **Urb**: Career/Technical Study

### Magnetically separable Fe3O4 nanoparticles: an efficient catalyst for the synthesis of propargylamines
- **Source**: CSIR-Indian Institute of Chemical Technology
- **Author**: Sreedhar, B.; Kumar, K. S.; Reddy, P. S.
- **Urb**: Career/Technical Study

### Magnetic transport behavior of nanocrystalline Nd0.67A0.33Mn03 (A=Ca, Sr, Pb and Ba)
- **Source**: CSIR-Indian Institute of Chemical Technology
- **Author**: Krishna, D. C.; Kalyanakrishni, Y.; Sreedhar, ...
<table>
<thead>
<tr>
<th>Title</th>
<th>Source</th>
<th>Author</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seminar on Cultural Differences and Similarities by Dept. Of English</td>
<td>Bharathidasan University</td>
<td>Ponnavaikko, M.</td>
<td>ENG, Audio</td>
</tr>
<tr>
<td>Dr. K. Meena delivered the speech at BUTA function.</td>
<td>Bharathidasan University</td>
<td>Meena, K.</td>
<td>ENG, Audio</td>
</tr>
<tr>
<td>Worldeconomics</td>
<td>Bharathidasan University</td>
<td>Ponnavaikko, M.</td>
<td>TAM, Audio</td>
</tr>
<tr>
<td>M JET Arts And Science College 11th Convocation Day Celebrations</td>
<td>Bharathidasan University</td>
<td>Ponnavaikko, M.</td>
<td>TAM, Audio</td>
</tr>
</tbody>
</table>
Browse (by Subject) Page

Natural sciences & mathematics
Mathematics
General principles of mathematics

234 results found in 0.0405 secs

Lecture 10: Red-black Trees, Rotations, Insertions, Deletions
Source: MIT OpenCourseWare
Self Learning | UG and PG

Lecture 18: Probability Introduction
Source: MIT OpenCourseWare
Self Learning | UG and PG

Abstract: Gives an overview of probability, including basic definitions, the Monty Hall problem, and strange dice games.

Lecture 2: Asymptotic Notation; Recurrences; Substitution, Master Method
Source: MIT OpenCourseWare
Self Learning | UG and PG
Studies on Physiological Parameters Confering Higher Productivity in Cotton Hybrids and Their Parents

Relative Efficiency Of Urea, Ammonium Sulphate And Calcium Ammonium Nitrate And Studies On Techniques To Inc...

Agricultural Marketing In India: Preliminary Guide To Indian Fish Fisheries Methods Of Fishing And Curing

Lipid Biosynthesis In Mammary Gland Of Cattle And Buffalo
Logic
Source: Librivox
Author: St. George William Joseph STOICK
Abstract: This book is a primer on the philosophy of stoicism, resurrected from its origins in Greek and Roman philosophy. The original philosophy was based on a reasoning process which it was assumed would lead to.

The Ontario Readers Third Book
Source: Librivox
Author: VARIOUS
Abstract: The Ontario Readers is a school book first published in 1919, by the Ontario Ministry of Education, containing short excerpts of literary works, both stories and poems, geared to grade-school age child.

Acknowledgements
Source: Librivox
Author: VARIOUS
Abstract: The Ontario Readers is a school book first published in 1919, by the Ontario Ministry of Education, containing short excerpts of literary works, both stories and poems, geared to grade-school age child.

To-day
Source: Librivox
Author: VARIOUS
Abstract: The Ontario Readers is a school book first published in 1919, by the Ontario Ministry of Education, containing short excerpts of literary works, both stories and poems, geared to grade-school age child.
<table>
<thead>
<tr>
<th>Book</th>
<th>Title</th>
<th>Source</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social studies: class 6</td>
<td>SCERT Andhra Pradesh Classroom</td>
<td>V to VIII</td>
<td></td>
</tr>
<tr>
<td>Social studies: class 7</td>
<td>SCERT Andhra Pradesh Classroom</td>
<td>V to VIII</td>
<td></td>
</tr>
<tr>
<td>Social studies: class 8</td>
<td>SCERT Andhra Pradesh Classroom</td>
<td>V to VIII</td>
<td></td>
</tr>
<tr>
<td>My English World: class 5</td>
<td>SCERT Andhra Pradesh Classroom</td>
<td>V to VIII</td>
<td></td>
</tr>
</tbody>
</table>
Satyajit Ray Society
“Nayak” – Satyajit Ray
रिजल्ट रिफाइन करें

लेखक
सूची
भाषा
सहयोगी
संपादित
रिपोर्ट
शैक्षिक उपचार

हिंदी

National
Digital
Library

20 results found in 0.3262 secs

महात्मा गांधी और स्व-निःशंकता
स्रोत: NCERT
Reading | XI and XII

सरासर: यह अध्याय से महात्मा गांधी के विचार प्रशस्ति रूप से उद्देश्यों और अंद्रोमिक समाज के बारे में विचारा गया है। गांधी जी का विचार था कि अंद्रोमिक समाज वर्तमान के अंतर्गत उन्मादन पर आधारित है।

महात्मा गांधी और राष्ट्रीय आंदोलन
स्रोत: NCERT
Reading | XI and XII

सरासर: यह अध्याय के इतिहास कुछ विषय आया - 3 का ही भाग है। इस आयाम का नाम "महात्मा गांधी और राष्ट्रीय आंदोलन" है। इस आयाम में 1915-1948 के महात्मागुप्त काल के दौरान भारत में महात्मा जी की गतिविधियों का अधिक देखें

लीला
स्रोत: NCERT
Reading | V to VIII

सरासर: यह अध्याय महात्मा गांधी जी की जीवनी पर आधारित है। महात्मा गांधी जी आम्रस में तथा अपने पुरे जीवन में, जीवन के भीतर जिस मुद्दतों को सामना देते थे और उनकी जान करने उसका वर्णन मिलता है।

स्वतंत्रता की ओर
स्रोत: NCERT
Reading | I to IV

सरासर: इस अध्याय से हमें राष्ट्रपिता महात्मा गांधी के भारत लोगों आंदोलन पर आधारित एक इतिहास का कहानी है।
Basic Statistics Page

### NDL: Statistics (2016-06-10)

#### NDL users

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Users from 230 institutions have been registered with NDL</td>
<td></td>
</tr>
<tr>
<td>Number of users who have activated their accounts</td>
<td>58,982</td>
</tr>
<tr>
<td>Number of users who have not activated their accounts</td>
<td>171,253</td>
</tr>
<tr>
<td>Total number of registered users</td>
<td>230,235</td>
</tr>
</tbody>
</table>

#### Site usage (by registered users only)

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of currently logged-in users</td>
<td>30</td>
</tr>
<tr>
<td>Number of sessions where the user stayed in the site more than 30 minutes</td>
<td>1,000</td>
</tr>
<tr>
<td>Number of users who visited the site more than 10 times</td>
<td>477</td>
</tr>
<tr>
<td>Maximum number of concurrent users in last 24 hours</td>
<td>132</td>
</tr>
<tr>
<td>Number of hits</td>
<td></td>
</tr>
<tr>
<td>In last 24 hours</td>
<td>10,981</td>
</tr>
<tr>
<td>Overall</td>
<td>174,836</td>
</tr>
</tbody>
</table>
Content Statistics Page

NDL: Statistics (2016-05-01)

- Basic Statistics
- Usage Statistics
- NDL Contents
- NDL Contributors

Use graph view: ON

Subject-wise Content Distribution

NDL Hosted | Networked | Overall
--- | --- | ---

Learning Resource Type-wise Content Distribution

NDL Hosted | Networked | Overall
--- | --- | ---

IIT, Kharagpur 10-Jun-16
References

NDL Movement
Library Committee Meeting, 21/22-May-15

IIT, Kharagpur
With Shri R. Subrahmanyan, Addl. Secretary and Shri Praveen Kumar, Joint Secretary, MHRD NDL Review @ IIT Kharagpur, 13-Aug-15
NDL Events

- Workshop @ INDEST Meet @ Mohali, 29/30-Apr-15
- National IDR WS @ IIT Kharagpur, 15/17-June-15
- Regional (North-East) IDR WS @ IIT Guwahati, 04/05-July-15
- National Seminar on “Emerging Trends in Academic Libraries” @ IIT Kharagpur, 21-Aug-15
- Regional (North-I) IDR WS @ IIT Roorkee, 24/25-Aug-15
- ETD 2015 India @ JNU New Delhi, 05/06-Nov-15
- 4th NKN Annual WS @ JNTU Hyderabad, 21/22-Jan-16
- Regional (West) IDR WS @ M S University, 28/29-Jan-16
- National VC Address over NKN, 03-Feb-16
- Regional (South-I) IDR WS @ IIT Madras, 25/26-Mar-16
- Regional (South-II) IDR WS @ IISc, Bangalore, 20/21-May-16
- National Workshop for Open-Source Software for Library Management (OSSLM 2016) @ IIT Kharagpur, 13/18-Jun-16
- Regional (South-III) IDR WS @ IIIT, Hyderabad, 01/02-Jul-16
- Regional (North-II) IDR WS @ NIT Srinagar, Scheduled
- Regional (West-II) IDR WS @ Pune University, Scheduled
- International Conference on Digital Library, Jan/Feb-17 (tentative)
Issues ...

- Creation of High Value Proposition
- Inculcation of Open Culture
- Self-Supporting Revenue Model
- National Licensing
- Clean Copyright Policies
- Effective Crowd-Sourcing Mechanism
- ...

13/06/2016
Status ...

- **Items**: 11 lakh+
- **Metadata**: Version 1.0 of Standard Published
- **Sources**: 62 (IDRs: 40+)
- **Registered Users**: 2 lakh+

**Nature of contents**
- Subject domain: Most of the major educational areas (except medical and law)
- Language: 10+
- Learning Resource type: 15+
- Educational Level: School Level (Class-I to XII) UG and PG

**Nature of Sources**: 62 (IDRs: 40+)
- Crawled Repositories: 4 (NPTEL, Khan Academy, PhET, Project-OSCAR, LibriVox)
- Manually-annotated sources: 4 (NCERT, CBSE, West Bengal Board, Tripura Board)
- Through API: 1 (INFLIBNET N-LIST)
- Direct: 6 (DLI, Shodhganga, Shodhgangotri, Spoken Tutorial, SNLTR)
- Featured: Satyajit Ray Society, IIT JEE, GATE Question Papers
Status ...

- **Upcoming**
  - Integration Underway
    - OECD
    - South Asian Archives
    - World eBook
    - IEEE
  - Advanced Stage of Negotiation
    - Various publishers under eSS
  - Exploration
    - Gandhi Heritage Portal
    - Baul Archive
    - Digital Herbarium (BSI)
Jai Hind!

Join NDL Movement to Make-in-India