

# **Development of Digital Repository by Using DSpace: An Experience @ JIIT University**

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# JIIT University



JIIT University is a leading university in the field of technical education in India. The vision of this university is ***“To become a centre of excellence in the field of IT education & Training, comparable to the best in the world for producing professionals who shall be leaders in innovation”***. JIIT University offers Doctoral, Post-graduate (M.Tech. and MCA) as well as Undergraduate programs (B.Tech.) in various disciplines. please reference jiiit website for more information i.e.

<http://www.jiit.ac.in/jiit/index.htm>

# Learning Resource Centre (LRC) @JIIT University

LRC is the heart of JIIT University. The main objective of LRC is to support & enhancement of the academic, learning and research activities by providing and disseminating the value added resources and quality services



# Learning Resource Centre @ JIIT University

## ■ **Collection:**

30000 Books, Bound Volumes, AV and Digital Materials, 100+ Print Journals, 14000+ Journals from IEEE, ACM, Springer and LNCS.

## ■ **Services:**

OPAC, Reference Services, Issue/Return of books, Reprography, CAS, Scanning, Internet, Inter Library Loan, CD burning facility etc.

## ■ **Library Automation and other IT applications**

Fully computerized, Bar-coded, Digital Repository Services and dedicated LRC web 20. enabled Website which is under testing phase at [www.genxlib.com](http://www.genxlib.com)

## ■ **16 staff members**

## ■ **Open all days (Except National Holidays)**

## ■ **Members of INDEST Consortia and DELNET**

## ■ **Infrastructure:**

75 PCs, 3M Security System, 350 sitting capacity, 19000 sq ft. areas, centrally air-condition and high speed internet and intranet connectivity.

# Digital Repository @ JIIT University

The LRC has taken the initiative to design & development of Digital Repository by using DSpace Software for managing, preserving and disseminating the intellectual output of the university among its community. The Digital Repository Service @ JIIT University is known as “Learning Resource Centre—Digital Repository Service (LRC-DRS)”. Initially, it is accessible on Local Areas Network (LAN) but very soon will be connected to internet.

The main objective of LRC-DRS is to collect, preserve and make accessible the intellectual assets of the university 24x7. At present, it is serving about 3000 users of the university and is holding the different types of scholarly communications.. Each department of the university has its individual community and collection. The LRC-DRS is helping its users to get upload, search and download of their required content promptly. Initially, it has uploaded more then **516 documents** i.e. Faculty research papers, tutorial sheet, project reports, theses etc.

# LRC-DRS@JIIT University

The screenshot shows a Microsoft Internet Explorer browser window displaying the LRC Digital Repository Service website. The browser's address bar shows the URL <http://172.16.70.88/dspace/>. The website header features the JIIT logo on the left, the text "LEARNING RESOURCE CENTRE" in large blue letters, and the tagline "A Gateway of Knowledge" in a cursive font. Below the header, the page is divided into several sections:

- Digital Repository Service**: A navigation bar with a search input field, a "Go" button, and links for "Advanced Search", "Search OPAC", "Home", "Communities & Collections", "Titles", "Authors", and "By Date".
- Welcome to LRC Digital Repository Service**: A central message box stating: "Welcome to LRC-DRS! This service will help us for capturing, archiving and distributing the intellectual output of the institute such as project reports, thesis, research papers, lecture notes and other preprints or useful document which is really helpful for enrichment the intellectual growth of JIIT as whole. We are seeking your cooperation to develop this service. Your suggestions are always welcome." Below this is a link that says "Know more.....".
- Communities in LRC Digital Repository**: A section titled "Select a community to browse its collections." with a list of departments: "Department of Biotechnology [8]", "Department of CSE/IT [25]", and "Department of Electronics & Communication [0]".
- Information and Help**: A sidebar with links for "About the Repository", "Author benefits", "Submission Guide", and "Copyright Issues".
- Events@LRC.....**: A section titled "LRC organized national workshop on Building Digital Libraries on 17-18 June 2005 . Some glimpse of the event is given below:" followed by a small image of a workshop.

The Windows taskbar at the bottom shows the "start" button, several open applications including "sanjay kataria - Inbo...", "Internet Explorer", and "Microsoft PowerPoint ...", and the system clock indicating "4:42 PM Wednesday 6/13/2007".

# Communities in LRC DRS

## Communities in LRC Digital Repository

Select a community to browse its collections.

[Department of Biotechnology \[55\]](#)

[Department of CSE/IT \[230\]](#)

[Department of Electronics & Communication \[117\]](#)

[Department of Humanities \[18\]](#)

[Department of Mathematics \[18\]](#)

[Department of Physics and Materials Science \[52\]](#)

[Jaypee Business School \[5\]](#)

[Learning Resource Centre \[21\]](#)

# Possible contents in LRC-DRS

- Project reports
- Lecture Notes,
- Research Papers
- E-Books
- Images
- Audio & Video files



# Designing and Customization of Digital Repository @ JIIT University

The screenshot shows the LRC Digital Repository System homepage in Microsoft Internet Explorer. The browser title is "LRC Digital Repository System: Home - Microsoft Internet Explorer provided by JIITU". The address bar shows the URL "http://172.16.70.88:8080/lrcdrs/". The page features the JIIT logo (Jaypee Institute of Information Technology) and the text "LEARNING RESOURCE CENTRE A Gateway of Knowledge". Below the header, there is a "Digital Repository Service" section with a search bar for "LRC DRS" and a "Search OPAC" link. The main content area includes a "Welcome to LRC Digital Repository Service" message and a list of "Communities in LRC Digital Repository" with counts for various departments. On the right, there is an "Information and Help" section with links to "About the Repository", "Author benefits", "Submission Guide", and "Copyright Issues", along with an "Events@LRC....." section mentioning a national workshop on Building Digital Libraries on 17-18 June 2005. The Windows taskbar at the bottom shows the Start button, several open applications, and the system clock at 2:26 PM.

**LEARNING RESOURCE CENTRE**  
*A Gateway of Knowledge*

**Digital Repository Service**

**Search LRC DRS:**  
   
Advanced Search

**Search OPAC**

Home

**Browse**

- Communities & Collections
- Titles
- Authors
- By Date

**Sign on to:**

- Receive email updates

LRC Digital Repository System >

**Welcome to LRC Digital Repository Service**

**Welcome to LRC-DRS!** This service will help us for capturing, archiving and distributing the intellectual output of the institute such as project reports, thesis, research papers, lecture notes and other preprints or useful document which is really helpful for enrichment the intellectual growth of JIIT as whole. We are seeking your cooperation to develop this service. Your suggestions are always welcome.

[Know more.....](#)

**Communities in LRC Digital Repository**

Select a community to browse its collections.

- Department of Biotechnology [55]
- Department of CSE/IT [230]
- Department of Electronics & Communication [117]
- Department of Humanities [18]
- Department of Mathematics [18]

**Information and Help**

- About the Repository
- Author benefits
- Submission Guide
- Copyright Issues

**Events@LRC.....**

LRC organized national workshop on Building Digital Libraries on 17-18 June 2005 . Some glimpse of the event is given below:

- About repository
- Author benefits
- Copyright issues
- Submission Guide
- LRC Notices/News
- Events @ LRC
- LRC-DRS FAQ

Learning Resource Centre [7]

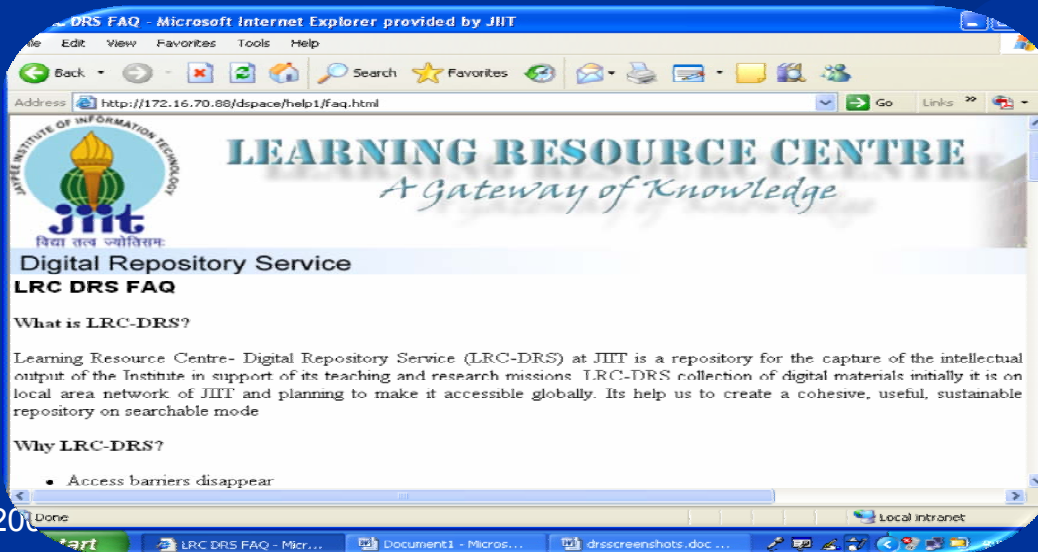
### LRC News

- We just got better and more friendly! Welcome to LRC DRS new user interface. How did you like

### Information and Help

- About the Repository
- Author benefits
- Submission Guide
- Copyright Issues

LRC organized national workshop on Building Digital Libraries on 17-18 June 2005 . Some glimpse of the event is given below:



# Hardware and Software Configurations

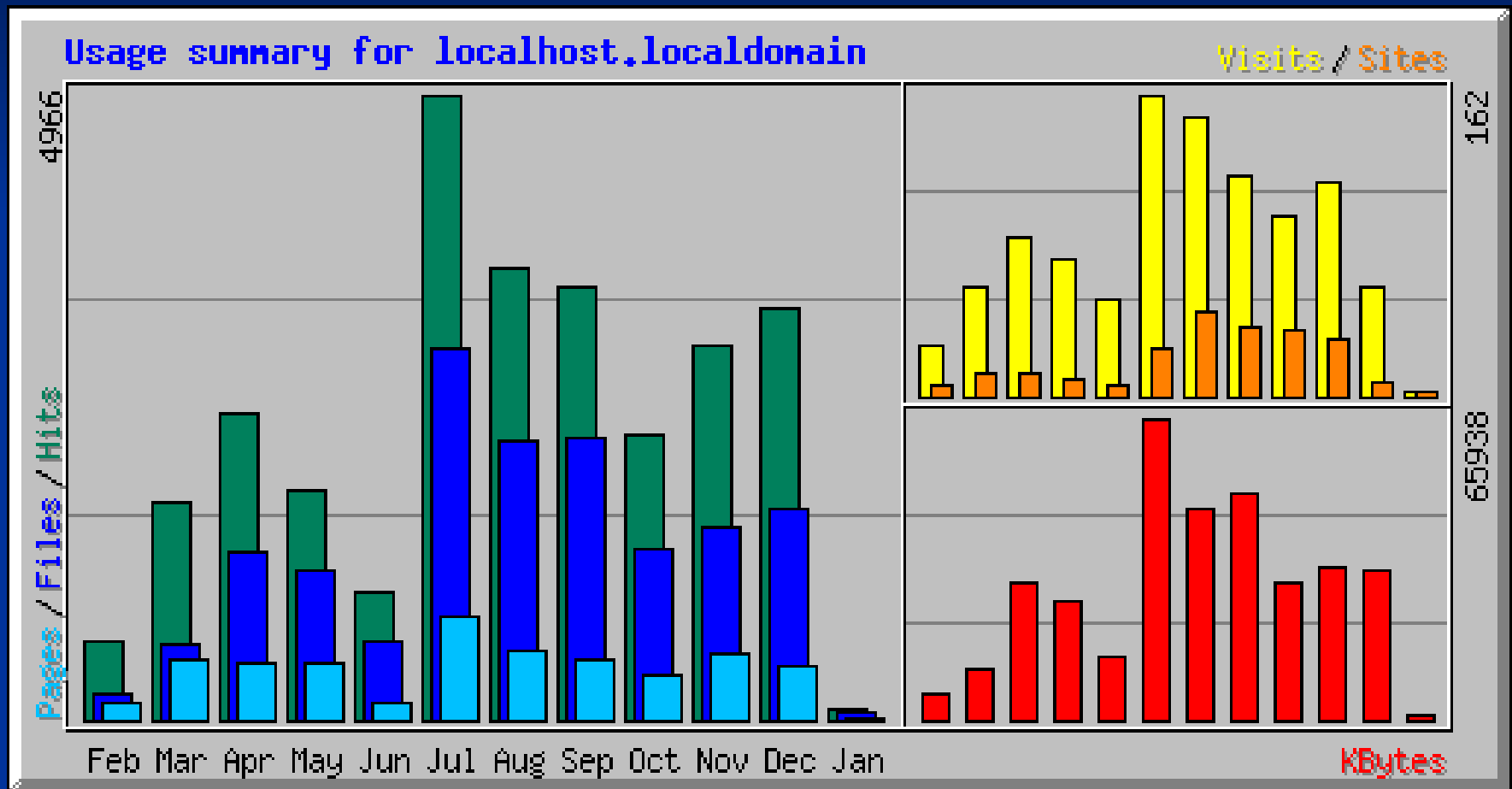
## ■ Server configuration

- HP- Proliant Server powered by 2 XENON Processors of 3.0 GHz each
- 4 GB Ram
- 120 GB RAID HDD
- Ethernet card of 1000 Mbps

## ■ Software Configuration:

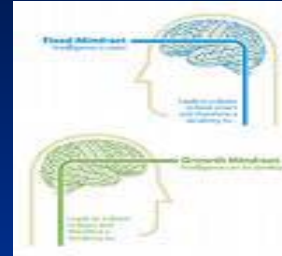
- DSpace 1.3.2
- Fedora Core 3
- Postgresql 7.2
- Tomcat 5.5.9

# Statistics of LRC-DRC on Jan 30,2009



# Major Problems before Development of Repository

- Mindset of Authority



- Lack of Fund



- Lack of Skills



- Lack of Infrastructure



# Major Problems After Development of Repository

- Acceptability



- Visibility



- Sustainability



- Accessibility



# Lesson Learnt

- Organizational commitment
- Well defined policy
- Trained Personnel
- Selection of hardware and software
- Selection of content
- Periodically Training
- Critical Review and Feedback
- Regular Maintenance

## Conclusion

Institutional Repository is capable of working as an alternative tool for collecting, managing, preserving and disseminating the intellectual asset of an institute/university. It is an unavoidable necessity and requires constructive support from management, faculty and staff. It is team work under the stewardship of Librarian.



# Learning Resource Centre- JIIT University



# Jaypee Group of Institutions

[www.jiit.ac.in](http://www.jiit.ac.in)



JIIT University  
Noida (UP) India



JIET (MP)  
India



JUIT (HP) India

# My contact



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# Questions?

Thank you