

# LIS14205EA1 DIGITAL LIBRARY SYSTEM

4 Credits

## Credit Pattern

Lecture	Tutorial	Practical	Total
3	1	0	4

### Objectives:

- To provide an overview of principles and practices in digital libraries
- To provide an overview of principles practices in digital libraries
- Address theoretical, technological, social, and practical issues regarding building, organizing, and providing access to digital libraries

### Unit I

- 1.1 Introduction, Historical Perspective and Features
- 1.2 Issues and Challenges
- 1.3 Digital Library Resources and Five Laws of Library Science
- 1.4 Digital libraries Initiatives: Overview of Digital Libraries at National and International Level.

### Unit II

- 2.1 Architecture, Organisation, Components (Collection Infrastructure, Access Infrastructure, Computer & Network Infrastructure, Digital Resource Organization, Manpower Training) and Searching Mechanisms
- 2.2 Digital Library Design and Semantics
- 2.3 Data Mining, Interoperability and Metadata Standards
- 2.4 Intellectual Property Rights and Digital Libraries: Role of WIPO

### Unit III

- 3.1 Web 2.0 and Digital Libraries.
- 3.2 Digital Libraries in Distance Learning.
- 3.3 Social aspects of Digital Libraries.
- 3.4 Evaluating Digital Libraries.
- 3.5 Future Digital Libraries and role of Librarian.

### Unit 1V

- 4.1 Digital preservation: An Overview

- 4.2 Select Digital preservation projects at global level
- 4.3 Safeguarding Digital Library surrogates
- 4.4 Features and utilities of prominent Digital Library softwares
- 4.5 Designing Model Digital Library in: -
  - Science, Technology & Medicine (STM)
  - Social Sciences
  - Humanities
  - Arts
- 4.6 Metadata Harvesting using OAI-PHM

### **Suggested Readings**

- Ally, M., & Needham, G. (2010). *M2-Libraries: a virtual library in everyone's pocket*. London: Facet Pub.
- Baker, D., & Evans, W. (2009). *Digital Library Economics and Academic Perspective*. Oxford: Chandos Pub
- Brown, A. (2013). *Practical digital preservation: A how-to guide for organizations of any size*. London: Facet Pub.
- Caplan, P. (2009). *Metadata Fundamentals for all librarians*. New Delhi: Indiana Pub.
- Chowdhury, G. G., & Chowdhury, S. (2003). *Introduction to digital libraries*. London: Facet Pub.
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- Jacobs, M. (2008). *Electronic resources librarianship and management of digital information: Emerging professional roles*. Binghamton, NY: Haworth Information Press.
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- Kumar, S. (2009). *Digital Library Development*. New Delhi: Rajat Pub.
- Lankes, R. D. (2011). *The atlas of new librarianship*.
- Lazinger, S. S., & Tibbo, H. R. (2001). *Digital preservation and metadata: History, theory, practice*. Englewood, Colo: Libraries Unlimited.
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- Muir, A. (2013). *Legal and ethical issues in digital preservation*.
- Papy, F. (2008). *Digital libraries*. London, UK: ISTE Ltd.
- Rajasekharan, K., Nafala, K. M., Sen, B. K., & UNESCO, New Delhi. (2009). *Digital archiving of audio content using WINISIS and Greenstone software: A manual for community radio managers*. New Delhi: Communication and Information Sector, United Nations Educational, Scientific, and Cultural Organization.
- Terry, R., & Banerjee, K. (2008). *Building Digital Libraries*. New York: Neal-Schuman
- Tyagi, D. (2013). *Digital library preservation strategies*. New Delhi: Random Publications.
- Witten, I. H., & University of Waikato. (2005). *StoneD: A bridge between Greenstone and DSpace*. Hamilton, N.Z: Dept. of Computer Science, University of Waikato.
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- Zeng, M. L., & Qin, J. (2008). *Metadata*. New York: Neal-Schuman