

## LIS-304:E1

## DIGITAL LIBRARY SYSTEM (4 credits)

### Objectives:

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

**Method of Instruction:** A combination of lectures, group discussions, guest lectures (where possible) and, special presentations will form methods of instruction. The module will follow with an examination at the end of the semester carrying 80 marks covering all units having three types of questions (long, short and very short) to be solved within 2 1/2hrs. Besides, internal assessment of 20 marks will be assessed on attendance, performance in presentations, assignments and symposiums.

### UNIT I Introduction to Digital Libraries

- 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 Digital Libraries: Design & Management

- 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 Semantic Digital Libraries
- 2.3 Data mining. Interoperability and Metadata Standards
- 2.4 Intellectual Property Rights and Digital Libraries: Role of WIPO and Right's Link
- 2.5 Usage Measurement (COUNTER, One Stat Free.com. Site Meter, etc.)
- 2.6 Lingua franca & Digital Libraries.

### UNIT III Digital libraries: Social Implications

- 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 IV Digital Library Softwares: Digital Preservation, Repositories and Archives

- 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 .