

(Theory)**4 Credits****Credit Pattern**

Lecture	Tutorial	Practical	Total
3	1	0	4

Objectives

- Develop an understanding of current applications of computer and communications technology in library and information services.
- To acquaint about emerging technologies useful for information access like Digital Libraries and allied concepts.

Unit I

- 1.1 Library Automation: Origin and Development
- 1.2 Library Automation: Need and Purpose
- 1.3 Planning and Implementation of Library Automation
- 1.4 Library Automation: Operations
- 1.5 Library Automation Packages: Salient Features and Usage
- 1.6 Impact of Library Automation on the Library Staff and Users

Unit II

- 2.1 Communication: An Overview
- 2.2 Networks: Concept and Components
 - 2.2.1: Classification and Topology
 - 2.2.2: Need of LIS Networks
 - 2.2.3: Characteristics of LIS Networks
 - 2.2.4: Resource Sharing and LIS Networks at National Level and International Level
- 2.3 Classification of LIS Networks based on Services offered

Unit III

- 3.1 Internet: Origin and Development; Features; Working and Capabilities
- 3.2 World Wide Web: Origin and Development
 - 3.3.1: Features; Working and Use
 - 3.3.2: Information Search Tools
- 3.3 Invisible Web: Brief Concept and Tools
- 3.5 World Wide Web and Information Resources
 - 3.5.1: Online Journals
 - 3.5.2: Online Books
 - 3.5.3: Electronic Theses and Dissertation (ETDs)
 - 3.5.4: Online Newspapers; etc
 - 3.5.5: Open access Movement and Scholarly Communication: origin, development and impact
- 3.6 Semantic Web: Features, Technologies and Applications

Unit IV

- 4.1 Digital Libraries: Origin and Development and Features
- 4.2 Digital Libraries: Issues and Challenges
- 4.3 Digital Library Evaluation
- 4.4 Digital Preservation: Concept and importance
- 4.5 Metadata
 - 4.6.1: Metadata: Historical Development and Concept
 - 4.6.2: Types of Metadata (Three and Five Category Taxonomy)
 - 4.6.3: Metadata Element Sets: Dublin Core, METS, MODS, EAD, MPEG Standards etc
- 4.6 Metadata Harvesting and Interoperability: Achieving Interoperability at Schema, Record and Repository Level

Suggested Readings

Antleman, K. (2004). Do open access articles have a greater research impact? *College and research libraries*, 65(5), 372-82.

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