

## COMPULSORY COURSES

### Paper – M-104 – INFORMATION AND COMMUNICATION TECHNOLOGY APPLICATIONS IN LIS (Theory)

Click Title for Old Question Papers.

#### **UNIT – I : Web Technologies in Libraries**

Implication of WWW on Library Websites, Web OPACs

Web 2.0 and Web 3.0: Features and Functions

Web Directories, Subject Gateways, Library Portals, etc.

Weblogs (blogs), Podcasts, RSS Feeds, Instant Messaging, Wikis, Flickr, etc.

#### **UNIT - II: Integrated Library Automation and Networking Software**

Open Source Library Software and Applications

Web based Library Management Software

Library Software Securities Parameters

Virtual Library

#### **UNIT – III: Multimedia and Institutional Repositories**

Multimedia Applications in Libraries

Image Creation using Photoshop and CorelDraw, etc.

Institutional Repositories: Greenstone Digital Library, Dspace, and E-prints, etc.

#### **UNIT – IV: Introduction of Networks**

Types of Networks: Network Components, Categories, LAN Standards and Inter-Network

Wireless Networking and Emerging Networking Technologies

Data Networks: Integrated Services Digital Network (ISDN), Digital Subscribers Line (DSL), Asynchronous Transfer Mode (ATM), etc.

Network Software: Network Operating Systems, Domain Name System and Network Management Systems, etc.

OSI Network Model and TCP/IP Reference Model

#### **UNIT – V: Emerging Technologies in Libraries**

RSS Feeds Technology and Libraries

Library Security Technology: RFID, Barcode, Smart Card and CCTV, etc.

Video Conferencing and Audio Conferencing

Functional Requirements for Bibliographic Records (FRBR)

Digital Content Management System

Federated Search and Multimedia Databases Search

Protocols: Z39.50 Standard for Retrieval and OAI-PMH

Artificial Intelligence and Libraries

Expert Systems in Libraries

### **Recommended Books**

1. **BRADLEY (Phil)**. How to use web 2.0 in your library. 2007. Facet Publishing, London.
2. **CLYDE (Laurel)**. Weblogs and libraries. 2004. Chandos Publishing, Oxford.
3. **EVANS (Woody)**. Building library 3.0: issues in creating a culture of participation. 2009. Chandos Publishing, Oxford.
4. **GRIFFITHS (Peter)**. Managing your internet and intranet services: the information professional's guide to strategy. Ed.2. 2004. Facet Publishing, London.
5. **JANCZEWSKI (Lech)**. Internet and intranet security management: risks and solutions. 2000. Idea, Hershey.
6. **KROSKI (Ellyssa)**. Web 2.0 for librarians and information professionals. 2008. Neal Schuman Publishers, New York.
7. **LIU (Jia)**. Metadata and its applications in the digital library: approaches and practices. 2007. Libraries Unlimited, Westport.
8. **PRIMARY RESEARCH GROUP STAFF**. Academic library websites benchmarks. 2008. Primary Research Group, New York.
9. **VINCE (J)**. Introduction to virtual reality. 2004. Springer, London.
10. **WISE (Richard)**. Multimedia: a critical introduction. 2000. Routledge, London.