COMPULSORY COURSES

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

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**