Library Automation and Networks

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Description

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MLC – 102 Library Automation and Networks

Unit 1
- Library automation: Definition, Need, Purpose and Advantages. Historical development. Planning for Library automation.
- Automation of Library operations. Acquisitions, Cataloguing, OPACs, Circulation and Serials control.

- Evaluation of Library automation systems.Criteria for evaluation. Evaluation techniques. Study of standards relevant to Library automation.
- Application of Barcode and RFID Technology for Library Functions.
- Application of Artificial Intelligence to Library and Information Centres

Unit 2
- Network concepts: Meaning, and Definition. Digital and analogue signals, Modulation, Frequency, Spectrum, Bandwidth, Multiplexing (FDM, TDM, STDM, and WDM), Asynchronous and synchronous transmission, Transmission Modes - Simplex, Half-duplex and Full duplex channels.
- Network devices: File server, Work station, Network Interface Unit, Transmission media, Hub, Repeater, Bridge, Router, Gateway, and Modem.
- Types of computer networks: Local Area Networks – Concept, Topologies (Bus, Star, Mesh, Tree, and Ring). Wide Area Networks and Metropolitan Area Networks- Concepts, Circuit switching and Packet switching. Difference between LAN and WAN. Wireless Networks –Mobile telephones.

Unit 3
- Network architectures. OSI and TCP/IP Reference models.
- Internet Technologies: Internet- History and development. World Wide Web (WWW). - Protocols and its functions. Understanding TCP/IP.
- Network Security Issues and Measures: Understanding the following issues in Network security- Security requirements and attacks, Confidentiality with conventional encryption, Message authentication and hash functions, Publickey encryption and digital signatures. Fire walls and anti- virus software.

Unit 4
- Historical Developments of Library Cooperation and Networking.
- Library Networks: Study of the functions and activities of OCLC, RLIN, BLAISE, ERNET, JANET, NICNET, INFLIBNET,DELNET, BALNET, MANLIBNET

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