

**Semester-2**

**Paper-M 201**

**Information Technology Applications (Theory)**

Unit: -1 Library Automation:

Planning and implementation of Library Automation, Automation, in name operations, Acquisition, Cataloguing, Circulation, Serial control, OPAC, Library management.

Unit:-2 Multilingual Bibliographic Databases:

Library Automation Software packages their study and Composition

Unit: -3 Communication Technology:

Fundamental of telecommunication Technology media, Mode and components. Networks, Media, UPT, Optical fiber' Ethernet network printer face card, Hubs, Routers, Modem, networking: Types and Topologies LAN, WAN, MAN, bus, Star, Ring, Token, Ring etc.

Unit: -4 Internet Basic features and Tools:

Network basic information services, connectivity, Dialup, leased lines, ISDN, Digital subscriber lines, E-mail, SMPT, Wireless, Send MAIL, POP3 CK, Protocols, FTD, HTP, Web browser, Netscape, Navigator, Internet Explorer, Web, Servers, Web Tools Search Engines. Internet Security, Teleconferencing Telex, Videotext.

Unit:- 5 Artificial Intelligence and Expert Systems (with reference to Library and Information Science)

**Paper-M 202**

**Information Technology Applications (Practical)**

- Unit: -1      Creation and maintenance of database using Library Software packages.
- Unit: -2      CD-ROM, ONLINE SEARCHING
- Unit: -3      Internet Searching
- Unit: -4      Web page design and creation.

**Paper-M 203**

**Digital Library**

Unit: -1 Digital Library

Genesis Definition, Objectives and Scope of Digital Libraries. Image formats, Automation Storage, Media Formats - ISO-9660,

Unit:-2 Software for Digital library, Hardware for Digital Library, OCR image, Editing Software, input capture devices, Scanners—digital invoice scanner, Data ware housing, Data mining and Metadata.

Unit: -3 Digital Library systems:

Introduction to Digital Library system; Automated, electronic, digital and virtual library system; Digital Library architecture, User Interface and Design

Unit: -4 Metadata - Types, function and schemes:

Open Source Digital Library Software (GSDL, D Space. Fedora) and their implementation

Unit:-5 Institutional repositories, Research archives' Management: Interoperability and Crosswalk; OAI/PHM and metadata harvesting. UNICODE (UTF , 8UTF-16 )and its application

**Paper-M 204**

**Elective Subjects**

**(Choose any one of the following)**

- 1. Public Library system**
- 2. Academic Library system**
- 3. Agricultural Information System**

Unit-1 Study of the specialized subject its structure and development.

Unit:-2 Definition, Terminology, branches of in the subject.

Unit:-3 planning, Design and evaluation of information system.

Unit:-4 Database, Design, Creation and development in the area of the subject study.

Unit:-5 Information system and networks in the subject, study of information source and service. INTERNET based sources &service.