

Paper No – 2 Information technology application (Theory)

Unit No.	Topic Name	Content	Hrs.	Marks	Credit
1.	Library Automation	<ul style="list-style-type: none"> • Automation need, purpose & development of library automation in western country and India. • Planning, organization and Implementation of Library Automation. • Automation, In - House Operations - Acquisition, Cataloguing, Circulation, Serials Control and OPAC. • Library Automation Software Packages developed by different type of agency open source software, free software, commercial software, software developed by institution and association. • Introduction to some important library automation software.(only introduction. 			
2.	Communication Technology	<ul style="list-style-type: none"> • Fundamentals of Telecommunication Technology; Media, Mode and Components. • Network Media, UTP Optical Fiber, Ethernet, Network interface card, Hubs, Routers, Modem. • Network Types and Topologies , LAN, WAN, MAN. • Bus, Star, Ring Token Ring, etc. • Local Area Network - Types and Topologies. 			
3.	INTERNET : Basic Features and Tools	<ul style="list-style-type: none"> • Network Based Information Services. • Connectivity: Dialup Leased Lines, ISDN, Digital Subscriber Lines. • E-Mail, SMTP, Wireless, Send mail, POP3 CK. • Protocols- FTP, HTTP. • Web Servers, Web Tools and Search Engines. • Internet Security. • Teleconferencing, Tele-Facsimile, Tele-text and Videotext. 			

4.	Digital Libraries	<ul style="list-style-type: none"> • Genesis, Definition, Objectives, Scope of Digital Libraries. • Image formats and Audio Formats. • Storage Media Formats-180-9660 DVD. • Software and Hardware for Digital Libraries, OCR, Image Editing Software. • Input Capture Devices, for Digital Libraries. • Data Warehousing, Data Mining and Meta Data. 			
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Reference Books

1. Internet for Libraries and Information Centers-M Paul and Ashok Jambhekar
2. Computer Net Work-Andrew S.
3. Digital Information Preservation and Online Cataloguing-Kamla Sinha
4. Computer and Library Services-Somnath Madhaw
5. Information Technology : Basics-P.S.G. Kumar
6. Information Sources & Services Theory & Practice-P.S.G. Kumar
7. Metadata in Practice-Hillmann Westbrooks (ALA)
8. Managing Electronic Reserves in Digital- Jeff Rpsedale (ALA)
9. Digital Library and Preservation-C.K.Sharma, S.Kumar, N.Singh
10. Computer in Library and Information Science-Praksah Chandra
11. Computer in Libraries-Jogendrasingh Burman
12. Automation in India-G.P.Singh
13. Digital Libraries-Khalid K.Farugl
14. Modern Library Strategies-Chaudhary

Gujarati Reference Books

૧. ૨૧મી સદીમાં ગ્રંથાલયનું ભાવિ-પ્રજાપતિ મણિભાઈ
૨. ઈ-ર્ફોમેશન ટેકનોલોજી-અતુલ કે. અકબરી
૩. ઈન્ટરનેટ-શાહ તેજશ
૪. ઈન્ટરનેટ ફોર બીગીનર્સ, ટાટા મેગ્રોહિલ
૫. ગ્રંથાલયોમાં માહિતી પ્રત્યાયન ટેકનોલોજી - ડૉ. મનુભાઈ જી. પટેલ