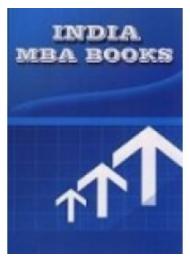# INFORMATION TECHNOLOGY: BASICS

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# ABOUT THE BOOK

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UNIT 1
1 CREDIT

Information & Communication Technology: Basics & Library Automation and Library Software

1.1 Information & Communication Technology: Basics of Communication technology, Components, transmission media (bounded , unbounded), transmission Mode (Simplex, half – duplex, full duplex, Multiplex), bandwidth ( voice band, medium band, broadband)

UNIT 2

1 CREDIT

Networks & Internet

2.1 Networks: definition, media (Optical fiber, Ethernet, Network Interface Card, Hubs, Routers), switching techniques ( Packet switching, circuit switching, cell switching),networks architecture ( Peerto peer, client – server),OSI model

2.2 Internet : Brief History, Components ,connectivity ( dial up, leased lines, ISDN – broadband, cable-internet, wireless ,Internet over satellite), internet protocols(TCP/IP, HTTP, FTP),browsers & search engines :concept, types, examples, network based information services,Internet Security ,Intranet, Extranet

UNIT 3

1 CREDIT

Digital Library & Electronic Documents

3.1 Digital Library: genesis, definition, characteristics, objectives ,digitization-devices (Scanners, Cameras) software, Data Warehousing & data mining :concept, application in libraries,Metadata-Brief history, standards-Dublin Core

Virtual Library-concept, hybrid library, electronic library

DOAJ-concept

Institutional repository-concept

Content management-concept

3.2 Electronic Documents

Multimedia-concept, elements, impact of multimedia on library services

E journals-Nature, Acquisition, Evaluation criteria

Databases-Definition, types (bibliographic, full text, statistical), e.g.

Databanks-Evaluation criteria, e.g.

UNIT 4

1 CREDIT

Current Trends in ICT

.Blogs, Wi-Fi, RFID, Subject Gateways, Portals, RSSFeeds, Twitter, Face book, Web 2.0, Web 3.0, Biometric Technology for library security, Open Source Software, Folksonomy, forums.

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