PAPER – II – PRINCIPLES OF INFORMATION TECHNOLOGY

UNIT – I

The Digital Age : An Overview of the Evolution in Computer Communications: Overview of a Computer & Communications System & elements – People & Procedure – Data / Information – Hardware Software – Communications.

Overview of developments in communications Technology – Connectivity and Interactivity.

UNIT – II

Application Software: Common features of Software – Data base Software – Financial Software – Software for Cyberspace : Communications, E-Mail, Web Browsers.

System Software: Three Components of system software – The operating System – Common Microcomputer Operating Systems: OS/2, UNIX, Windows NT – Utility Programs.

UNIT – III

Input & Output : Input Hardware – Keyboard Input – Pointing Devices – Common Hardware for Source Data Entry : Scanner, Audio, Video, Photographic input – Output Hardware: Display Screens – Hard Copy Output – More O/P devices.

UNIT – IV

Storage & Databases: Storage Fundamentals –Diskettes – Hard Disks – Optical Disks – Flash – Memory Cards – Magnetic Tape – Online Secondary Storage – Organizing Data in Secondary Storage Data Bases – File Management: Basic Concepts –File Management Systems Versus Data Base Management Systems – Types of Data Base Organization.

UNIT – V

Telecommunications: The Practical uses of Communications & Connectivity – Telephone Related Communications Services – Video / Voice Communication – On line Information Services – The Internet – The World Wide Web – Shared Resources: Work Group computing, EDI & Intranets & Extranets – More Internet Technologies: Phone, Radio & T.V. Communication Technology: Tele Commuting & Virtual Offices – Using Computers to Communicate: Analog & Digital Signals, Modems & Other Technological Basics – Communications Channels – The Conduits of Communications – Communication Networks – Local Networks.

Text Book:

Stacey C.Sawyer, Brian K.Williams, Sarah E.Hutchinson, "Using Information Technology – A Practical Introduction to Computers & Communications", 3rd Edition, McGraw Hill International Editions, 1999.