

OBJECTIVES: To enable the students to have an understanding of nature and principles of management.

COURSE:

UNIT – I: IT in the Modern Organization : Basic concepts of Information systems – Organizational structure and IT support. IT support at different organizational levels managing Information Technology in organizations.

Introduction to Computer systems : Introduction to Computers – Five generations of Modern Computers – Classification of Digital Computer systems.

UNIT–II : Computer Hardware : Computer Hardware : Central processing Unit (CPU). Control Unit, Arithmetic Logic Unit (ALU).

Memory : Memory Organization – Random Access Memory (RAM), Dynamic Ram (DRAM, Static RAM (SRAM). Read only memory (ROM), Registers.

Secondary Storage Devices : Magnetic Tape, Magnetic Disks, Hard Disks, Flexible Disks, Optical Disk.

Input Devices : Key Board, Mouse, Trackball, Game Controllers, Scanners, Voice Recognition, Web Cams, Digital Cameras, OCR, OMR, MICR.

Output Devices : Monitor : CRT Monitors, Flat-Panel Monitors – Printers : Daisy-Wheel , DoT-Matrix, Ink-jet Printer – Plotter, Multimedia Projector.

UNIT– III : Computer Software : System Software and Application Software. Operating systems : Windows operating systems, Mobile Device Operating systems, and Notebook operating systems.

Application Software : Types of personal Application software. Spreadsheets – Data Management – Word processing – Desktop publishing, Graphics, CAD, CAM, CIM, Multi Media. Speech-recognition software, Groupware, Software suits.

Programming Languages : Assembly language, procedural languages, Non-procedural languages, Natural programming Languages, Visual programming languages, Hyper Text Markup Language, Modeling Language object-oriented programming Languages.

UNIT-IV : Telecommunications and Networks : Introduction, Analog and Digital signals.

Modulation – Need for Modulations, Types of Modulations. Modems.

The Tele Communication System: Communication Processors: Modem, Multiplexers, Front-end processor.

Communication Media & Channels : Cable Media, Broadcast Media Channels. Twisted pair, Coaxial Cable, Fiber-Optic cable, Micro-wave, Satellite, Radio, Cellular Radio, Infrared Global Positioning Systems.

Networks : Local Area Networks, LAN Topologies, Wide Area Networks (WAN) – Value Added Networks (VAN) – Virtual Private Networks (VPN)

The Internet, Intranets and Extranets: The Evolution of the Internet, services provided by the Internet, World Wide Web: Intranets & Extranets.

UNIT V : New Technologies in Information Technology : Introduction to Hyper Media,

Artificial Intelligence and Business Intelligence, Knowledge Discovery in Database: (KDD). Data warehouses and Data Marts. Data Mining and On-line Analytical processing (OLAP) – Enterprise Resource planning (ERP) – Supply Chain Management (SCM) – Customer Relationship Management (CRM) – Geographic Information systems.

REFERENCES :

1. Ms. J.J.L.R. Bharathi Devi, M.Com., MBA., MCA., M.Phil (Computers), M.Phil (Management) A Text Book on Information Technology, Maruti Book Depot, Guntur.
2. N.V.N. Chary & Lalitha S., Fundamentals of Information Technology, Kalyani Publishers, Hyderabad.
3. Turban, Rainer, Potter “Introduction to Information Technology”, Wiley India [2nd Edition]
4. Alexi's Leon and Mathews Leon, Fundamentals of Information Technology, Leon Press [2nd Edition]

