
INFORMATION TECHNOLOGY

Paper Code CEN-403

Course Credits 4

Lectures / week 3

Tutorial / week 1

Course Description **UNIT – I**

What is information technology? Data and Information, types of information, information security and integrity, disaster recovery, privacy and piracy. Advantages and impacts of information technology, applications of information technology, IT services and support.

UNIT- II

Input Devices: Pointing Devices, Scanning Devices, Audio Input Devices, Video Input Devices, Human biology Input Devices. Output Devices: Video Display Devices, CRT, flat panel, video controllers; Printers, impact printers and non-impact printers, Sound Output, 3D Output.

UNIT- III

Magnetic storage devices, floppy, hard disk drive, tape, RAID; Optical Storage Devices, CD, CD-RW, DVD, DVD-RW; How read and write works on storage medium, Drive Speed and Performance. **Microchips:** RAM, ROM, CMOS, Flash, How memory works; case studies of Intel, AMD, Cyrix.

UNIT- IV

Modem, DSL, ISDN, ISP, TCP/IP, DNS, Telnet, FTP; Web Security: Data Security, firewalls, how virus works, hazards and risks; intranets, extranets; DTV, HDTV, SDTV, Videoconferencing; Graphics and Multimedia: Bitmap and Vector Graphics, Interactive multimedia, hypermedia, HTML, 3D modeling, animation; Compression techniques, JPEG, MPEG.

UNIT – V

Business Intelligence, E-commerce: B2B, B2C, C2C case studies; Data Mining and Warehousing; ERP; Emerging Technologies and Trends.

References / Text

Books:

- Peter Norton, “Introduction to Computers, Tata Mc-Graw Hill.
- Williams Sawyer, “Using Information Technology” Tata Mc-Graw Hill.
- M N Doja, “Introduction to Computers and Information Technology”

Computer Usage / e.g. Mac or Linux Operating System, Windows.

Software Requires:
