| SEMESTER | PG 1ST |

SEMESTER   PG 1ST

COURSE CODE: PGICT20O107

COURSE TITLE: INFORMATION TECHNOLOGY CONCEPTS

CREDITS   2

UNIT-I:

Information Technology and Computers: Data, information, Computer system, characteristics of computer, Evolution of Computers, Classification, Application of Computers, Central Processing Unit: ALU, Control Unit, Register

Hardware:

Input devices: Keyboard, Mouse, Joy Stick, Digitizing Tablet, Light Pen, Touch Screen, Track Ball, Microphone, Scanner, MICR, OCR, OMR, Barcode Reader, Webcam, Digital Camera, Point of Scale, Touch Pad, Smart Card
Output devices: VDU, Printers - Dot Matrix, Laser and Inkjet, Plotters.

Memory: Primary-RAM, ROM, PROM, EPROM, EEPROM, Cache, Registers; Secondary-Hard disk, Optical Disk, Blue Ray Disc, Pen drive, Memory cards

UNIT-II

Operating System: Introduction, functions of operating system, evolution of operating system, types of operating system (batch processing, multiprogramming, multiprocessing, time sharing, real time) single user **operating s**ystem, multi user operating system

Number System and Data Information Concepts: Positional Number System: Decimal, Binary, Octal, Hexadecimal, conversion from one Number system to another.
Computer Codes: BCD, EBCDIC, ASCII, UNICODE, Gray Code.
Basic logic gates: AND, OR, NOT, NAND, NOR

Recommended Books:

1. Sanders, D.H., "Computer Today ", Mc-Graw Hill, 1988.
2. Suresh K. Basandra, "Computers Today", Galgotia Publications Pvt. Ltd.
3. Microsoft Web Publishing Step by Step, Active Education.
4. Bokhari& Ahmad "UNIX Operating System", DhanpatRai& Co.
5. Raja Raman V., "Fundamental of Computers" (4th edition.), Prentice Hall of India, New Delhi.
6. Trainer T., et al, "Computers", McGraw Hill.
7. Norton, Peter, "Introduction to Computers, Mc-Graw-Hill