FIRST YEAR B.SC. COMPUTER SCIENCE

Paper-I : <u>Introduction to Information Technology</u>

UNIT- I

Computer Basics : Introduction , Evolution of Computers, Generations of Computers ,Classification of Computers. The Computer system : Components of a Computer system ,Communication among various Units.   Applications of computers.

UNIT- II

Computer Memory : Memory Hierarchy, Different Types of RAM & ROM.

System software : Introduction to system software, Distinction between systems software and Application software. Introductory ideas of loaders and linkers Computer language, Assemblers, Compilers and Interpreters.

UNIT- III

Operating systems : Evolution, introduction to OS , functions and facilities, single tasking and multitasking OS , single user and multi-user OS, characteristics of MS-DOS and Unix operating systems , DOS and UNIX commands for file and process management.

UNIT- IV

Text editors: overview of editing process

Graphical User Interfaces: Introduction to Windows, Word processing software packages and features, spread sheet packages and features,Working with Presentation packages.

UNIT- V

Computer Communications**:** Computer to computer communication through networking, Introduction to computer networks and networking software, Types of Networks, Internet and Intranet , Electronic mail. World Wide Web, URL ,Web browsers ,Search engine , Multimedia and Virtual reality. E-Commerce , Global Positioning System. Specifications of a typical desktop computer system, Recent Developments in ICT

Recommended books:
1. **Satish Jain : Information Technology**
2. **Alexis Leon : Fundamentals Of Information Technology**
3. **V.Rajaraman : Fundamentals of Computers**