## AECC-2 Semestor-II

## Fundamentals of Compuicrs

Theory 2 Hours/Weak 2 crajits

Unit - I
Introduction to Computers: What is a computer, characteristics of computers, Oenerations of Computers. classifications of compulers, Basic computer organization, applications of Computers hrput and output devices: Input devices, oulput devices, sof copy devices, hard copy devices. Compuler memory and processors: introduction, memory hierarchy, processor registers, cache memory, primary memory, secondary storage devices, magnetic tapes, floppy • disks, hard disk's, oplical drives, USB Flash drivens, memory cards, mass storage devices, Basic Processor Architecture.

Unit - II


#### Abstract

Number systems and computer codes: Binary number system, working with binary numbers, octal numbers system, Hexndecimal number system, working with fractions, signed number representation in binary form, BCD Code, ollter codes. Boolean algebra and logic gates. Boolean algebra, Venn Diagrams, representations of Boolean functions, logic gates, logic diagrams and Boolean expressions using karnaugh map. Computer soflware: introduction to computer software, classification of computer sollware, system software, application sofware firmware, middleware, acquiring computer software, design and implementation of correct, efficient and maintainable programs.


Text: Reena Thareja, Fundamentals of Computers.

## References

1. V.Rajaraman, $6^{\text {l" }}$ Edition Fundamental of Computers. Neelarika Adabala.
2. Anita Goel, Computer Fundamentals.
