18 Syllabus:

BCA I (Sem I)

Course Code: 101	Fundamentals of Computer	Credits: 02	Marks : 50 (Internal -10 External -40)
Course Outcomes	After completion of this course, the students will be able to- 1. Understand basic concepts of computers and peripheral devices. 2. To understand Number systems and logic gates.		

Unit No.	Descriptions	No. of Periods
I	**Introduction to Computers & Peripheral Devices :** Introduction to computer, Characteristics of Computers, Block diagram, functions and components of computer, History of computers, Applications of computer, Types of computers, Types of Programming Languages: Machine Languages, Assembly Languages and High Level Languages, Introduction to software, Types of software. Peripheral Devices: Input Devices –Keyboard, Touch screen, Mouse, digitizer, Joystick and scanning devices- OMR, OCR, and MICR. Output Devices – Monitors, Projector, Printers & its types, Plotters. Memory Devices - Primary Memory & its types (RAM, ROM), Secondary memory & its types (Hard Disk, Magnetic Tape, Optical Discs- CD, DVD).	15
II	**Number Systems and Logic Gates**: Number System - Decimal, Binary, Octal & Hexadecimal, Conversion from One base to another base. Computer Codes - : BCD, EBCDIC, ASCII. Logic gates & truth tables- AND, OR, NOT, NAND,NOR.	15
	Books Recommended: 1. Computer fundamentals by Rajaraman 2. Computer fundamentals by P.K.Sinha and Priti Sinha 3. Computer fundamentals, Architecture and Organization by B. Ram 4. Computer Today – Basandara	