

## B. Sc Computer science

<b>Course Outcome</b>	CO.1 To know about Digital Computer, Major Components of digital computer, Hardware, Software, Software & Firmware, Computer Application in various fields of science and managements. Data Representation:
	CO.2 To learn Decimal and binary number system, Decimal-binary conversion, Octal number system, Hexadecimal, BCD number, Binary arithmetic, Alphanumeric representation, Complements, r and (r-1)'s complements, Fixed point and floating point representation.
	CO.3 To create algorithm, flowchart, data flow diagram.
	CO.4 To solve the concept of programming related to real life problems in 'C' operations. 3
	CO.5 To learn about Logic gates, Boolean algebra, Combinational Circuits: Half adder, Full adder, Flip-flops – RS flip-flop, D- flip-flop, JK, T flip flop, Edge-triggered flip flop, Encoders, Decoders, multiplexers, Registers – shift register, buffer register counters.
	CO.6 To solve the basic problems of Karnaugh Maps.
	CO.7 To learn about Instruction code, direct & indirect addresses, Timing and control signals, Instruction cycle, memory reference Instruction, I/O Instructions.
	CO.8 To solve the problems based on addition and subtraction with signed magnitude data, multiplication algorithms & Booth algorithm, hardware algorithm.
	CO.9 To implement the concept of Time window and slope converters, Tracking A/D and successive approximation converters, Digital to analog converters, LED and LCD display, seven segment display.
	CO.10 the students learn the concept of paging, segmentation, demands paged allocation. Processor Management: State models, Job schedulers, Process scheduling, Job and process synchronization, Race condition, deadlocks, Deadlock detection, recovery & prevention