

Module-1 Introduction to computer Hardware and software 0 hours

Introduction to computer Hardware and software: Computer generations, computer types, bits, bytes and words, CPU, Primary memory, Secondary memory, ports and connections, input devices, output devices, Computers in a network, Network hardware, Software basics, software types.

Overview of C: Basic structure of C program, executing a C program. Constant, variable and data types, Operators and expressions, **(RBT Levels : LI & L2)**

Module-2

0 hours

Managing Input and output operations.
Conditional Branching and Loops.
Example programs, Finding roots of a quadratic equation, computation of binomial coefficients, plotting of Pascals triangle. **(RBT Levels : LI & L2)**

Module-3

Arrays

0 hours

Arrays: Arrays (1-D, 2-D), Character arrays and Strings, Basic Algorithms: Searching and Sorting Algorithms (Linear search, Binary search, Bubble sort and Selection sort). **(RBT Levels : LI, LI & L3)**

Module-4

0 hours

User Defined Functions and Recursion.

Example programs, Finding Factorial of a positive integers and Fibonacci series.
(RBT Levels : LI, L2 & L3)

Module-5

0 hours

Structure and Pointers, Preprocessor Directives **(RBT Levels : LI, L2 & L3)**