

- **Introduction to Programming**

- Data Types, Operators, Tokens, Keywords,
- Compilation, Linking, Execution, Debugging
- Integrated Development Environment
- Console Input and Output
Printf, scanf, get, put, getchar, putchar gets, puts func
- Control Structures
If statement, If-else statement, Nested if-else statement, Conditional operator, Switch statement, Loop control structures, While loop, Do-while loop, For loop, Nested for loop, Jump statements
break, continue goto, exit
- Functions
Types of Functions, call by value, call by reference, storage classes,
- Recursion
- Pointers
Indirection operator and address of operator
- Pointer arithmetic, Dynamic Memory allocation

- **Arrays**

- Introduction to one-dimensional Array
- Definition
- Declaration
- Initialization
- Accessing and displaying array elements
- Arrays and functions
- Introduction to two-dimensional Array
- Definition
- Declaration
- Initialization
- Accessing and displaying array elements

- **Strings**

- Definition
- Declaration
- Initialization
- Standard library functions
- Implementations without standard library functions

- **File IO**

- Definitions of files
- File opening modes
- Standard functions
- Random Access Files

- **Structures and Unions**

- Introduction to structure
- Definition
- Declaration
- Accessing members
- Structure operations
- Nested structure
- Introduction to union
- Definition
- Declaration
- Differentiate between structure and union

- **Command Line arguments**

- **Macros**