# Syllabus of C Language

- C Introduction
  - History of 'C'
- Instructions
  - Type Declare Instruction
  - o Arithmetic Instruction
  - Input/Output Instruction
  - Control Instruction
    - Decesion Control Instruction
    - Loop Control Instruction
    - Case Control Instruction
- Data Types
  - Variables & Constants
  - Macros
- Array
  - Single Dimension Array
  - Double Dimension Array
  - Multi Dimension Array
- String
  - String Handling
  - String Functions
- Function
  - Call By Value
  - o Call By Reference
  - Recursion
- Storage Class

- Automatic Storage Class
- Register Storage Class
- External Storage Class

### Pointer

- Pointer Introduction
- Pointer In Array
- Pointer In String
- o Pointer In Function
- o Pointer In Structure
- Pointer In File
- Structure
- Union
- Enum
- Dynamic Memory Allocation
- Command Line Arguments
- Creating Header File
- File Handling
- Graphics

## Syllabus of C++ Language

- C++ Introduction
  - History of 'C++'
  - o Difference Between C and 'C++'
- Instructions
  - Type Declare Instruction
  - Arithmetic Instruction
  - Input/Output Instruction
  - Control Instruction
    - Decesion Control Instruction
    - Loop Control Instruction
    - Case Control Instruction
- Data Types
  - Variables & Constants
  - Macros
- Array
  - Single Dimension Array
  - Double Dimension Array
  - Multi Dimension Array
- String
  - String Handling
  - String Functions
- Function
  - o Call By Value
  - Call By Reference

- Recursion
- Inline Function
- Friend Function
- Virtual Function
- Pure Virtual Function

### Storage Class

- Automatic Storage Class
- Register Storage Class
- External Storage Class

#### Pointer

- Pointer Introduction
- o Pointer In Array
- Pointer In String
- Pointer In Function
- Pointer In Structure
- Pointer In File
- Structure
- Union
- Enum
- Dynamic Memory Allocation
- Command Line Arguments
- Creating Header File
- File Handling
- Reference Variable
- Manipulator
- Object Oriented Programming System(OOPS)

- Object and Class
- Encapsulation
- Abstraction
- o Inheritance
- Ploymorphism
- Constructor & Distructor
- static & this keyword
- Scope Resolution Operator
- Abstract Class
- Templates
- Graphics