

# C/C++

## Programming in C

- Data types
- Operators
- Control Structures
- Loop Control Structure
- Arrays
- Functions
- Library Functions
- Recursion
- Structures in C
- Structure and Arrays
- Structure and Functions
- Pointers in C
- Function Pointer
- Macros and Storage Class
- File Inclusion
- Storage Classes
- Files Input/output
- Console I/O and File I/O
- Command line arguments
- Creating your own command
- Data Structure
- Stacks and Queues
- Linked List

## Programming in C++

- Types of programming language
- Compiler and Interpreter
- Introduction to OOP
- Characteristics of OOP
- Advantages of OOP

- Introduction to C++
- Function overloading
- Classes and Objects
- Scope resolution operator
- Constructors and Destructors
- Operator Overloading
- Overloading the + operator
- Overloading the == operator
- Friend functions / classes
- Overloading <<and >>
- Dynamic Memory Management
- Miscellaneous class issues
- The const data member
- The static data members
- Inheritance
- Virtual Base Classes
- Dynamic Binding
- Polymorphism
- Upcasted pointer
- Size of an object, VTABLE, VPTR
- C++ I/O formatting and File Handling
- Cin, cout revisited
- Manipulators

### **Course Benefits (USP)**

- ✓ **Well-equipped Labs**
- ✓ **Practical Approach**
- ✓ **Any time Lab facility**
- ✓ **Worldwide recognized I TURN Certificate**
- ✓ **100% Job Assistance**
- ✓ **Quality study material**
- ✓ **Well Experienced faculty**

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