Certificate Course in C++ Programming

C++ Curriculum Details

Introduction to C++

- Introduction to OOPS Programming Concepts
- Introduction to C++
- Hello World example
- Implementation of C++ program
- Cout and Cin statements
- Operators in C++

C++ Flow Control

- C++ if...else
- C++ switch case
- C++ for Loop
- C++ do...while Loop
- C++ break & continue
- C++ Go to statement

C++ Functions

- C++ Functions
- C++ Function Types
- C++ - Categories for Functions
- C++ Function Overloading
- C++ Default Argument
- C++ Recursion & its implementation

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C++ Arrays & String

- C++ Arrays
- Multidimensional Arrays
- C++ Function and Array
- C++ Strings

C++ Classes & Objects

- C++ Object & Class
- C++ Objects and Class
- C++ Objects & Function
- Array of objects
- Static data and functions
- Friend Functions

C++ Constructors & Destructors

- Default constructors
- Parameterized constructor
- Copy Constructor
- Destructors
- Constructor overloading

C++ Inheritance

- Introduction to inheritance
- Types of inheritance
- Single Inheritance
- Multiple inheritance
- Multi-Level inheritance
- Constructor and destructor role in inheritance
- Multipath inheritance
- Ambiguity in Multi path inheritance & its solutions

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C++ Polymorphism

- Virtual keyword
- Virtual functions
- Pure virtual functions
- Virtual classes

C++ Input Output Streams & File Handling

- Introduction for Input / output stream
- File handling in C++
- Various program for file handling
- File modes

Practice Questions on C++

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