

C++ Programming

1-Month | Duration

Module 1: Introduction to C++

- What is Programming?
- What is C++ Language?
- Structure of C++ Program
- First C++ Program (Hello World)

Module 2: Basic Syntax & Data Types

- Keywords & Identifiers
- Variables & Constants
- Data Types
- int, float, double, char, bool
- Type Casting
- Input / Output
- cin, cout

Module 3: Operators in C++

- Arithmetic Operators
- Relational Operators
- Logical Operators
- Assignment Operators
- Increment / Decrement Operators
- Bitwise Operators
- sizeof Operator



Module 4: Control Statements

Conditional Statements

- if
- if-else
- else-if ladder
- nested if
- switch case
- Looping Statements
- while loop
- do-while loop
- for loop
- nested loops
- Jump Statements
- break
- continue
- goto
- return
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Module 5: Functions

- Introduction to Functions
- Function Declaration & Definition

- Function Calling
- Function with Arguments & Return Value
- Default Arguments

Module 6: Object Oriented Programming (OOPs)

- Introduction to OOP
- Class & Object
- Access Specifiers
- public, private, protected
- Constructors
- Default Constructor
- Parameterized Constructor
- Destructor
- Pointer

Module 7: Inheritance

Module 8: Polymorphism

Module 9: Encapsulation & Abstraction

Module 10: Arrays & Strings

Module 11: Exception Handling

Module 12: File Handling

