

C++ Language With OOP's and UML Duration - 2 Months

- **Module – I [Introduction]**
 - Object Oriented Concept
 - Comparison with C
 - New Operators, Data Types
 - C++ Keywords, Declaration
 - Input Output Streams
- **Module – II [OOP's]**
 - Object Oriented Features
 - Objects and Classes
 - Abstraction, Encapsulation
 - Inheritance, Composition
 - Polymorphism, Persistence
- **Module – III [Input Output]**
 - Input and Output Streams
 - iostream.h
 - cin, cout
- **Module – IV [C++ Basics]**
 - Scope Resolution Operator
 - Reference Variables
 - Function Overloading
 - Default Arguments
 - Object Modeling
 - Properties and Methods
 - Creating Classes
 - Structures and Classes
 - Objects and Classes
 - Access Specifiers
 - Inline Functions
 - Namespaces, Packaging
 - Anonymous Classes
 - Objects and Arrays
 - Objects and Pointers
 - Passing Objects' Arguments
 - Returning Objects
 - Static Class Members
 - Factory Class Methods
 - Meta Classes
 - Aggregation
 - Recursive Aggregation
- **Module – V [Initialization]**
 - Constructors
 - Destructors
 - Default Constructors
 - Overloading Constructors
 - Copy Constructor
 - Initializing Static Members
 - Explicit Constructors
 - Creating Dynamic Objects
- **Module – VI [Inheritance and Polymorphism]**
 - Function Overloading
 - Concept of Inheritance
 - Operator Overloading
 - Friend Function Concepts
 - Friend Classes
 - Overloading using Friend
 - Operators not overloaded
 - User Defined Manipulators
 - Relationships and composition
 - Implementing Aggregation
 - Nested Classes
 - Types of Inheritance
 - Protected Access Specifier
 - Private Inheritance
 - Protected Inheritance
 - Multiple Inheritances
 - Ambiguity Resolving
 - Constructors and Inheritance
 - Overriding Functions
 - Static and Dynamic Binding
 - Virtual Functions
 - Pure Virtual Functions
 - Abstract Classes
 - Use of Polymorphism
 - Advantages of Polymorphism
- **Module – VII [File Handling]**
 - Sequential Files
 - Random Access Files
 - Input File Streams
 - Output File Streams
 - Stream Functions
 - Object Persistence
- **Module – VIII [Advanced features]**
 - Constant Objects
 - Mutable Objects
 - Exception Handling
 - Run Time Type Identification
 - Templates and Functions



- Templates and Classes
- Manipulators
- Formatted Input Output

- **Module – IX [Unified Modeling Language (UML)]**
 - UML Concepts
 - Object-oriented paradigm
 - Object-oriented design
 - UML specifications
 - Object model
 - UML diagrams
 - Object diagram
 - Component diagram
 - Deployment diagram
 - State chart diagram



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