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Syllabus for 'C++'

Duration:45Days

Introduction to Object Oriented Programming

- Concept of OOP
- Features of OOP
- Introduction of 'C++'
- Structure of 'C++' program

'C++' Tokens and Type Casting

- Keywords and Identifiers
- Operators
- Constants
- Variables
- Data Types
- Precedence of Operators
- Scope and Lifetime of Variables

Classes & Objects

- Specifying a class- Defining members functions
- Private member functions & Nesting of member functions
- Arrays within a class
- Memory allocation for objects
- Static data members & static member functions
- Objects as function arguments
- Arrays of objects
- Returning Objects

Function in 'C++'

- Call by reference, Return by reference
- Function overloading and default arguments
- Inline function
- Static class members
- Friend functions

Constructors and Destructor

- Concept of Constructor
- Types of Constructors
- Memory allocation (new and delete)
- Usage of destructor

Operator Overloading

- Overloading Unary and Binary operators
- Overloading using friend function

Inheritance

- Inheritance
- Types of inheritance
- Virtual base classes and abstract base classes
- Constructor and destructor in derived class

Pointers, Virtual Functions and Polymorphism

- Pointers
- Pointers to objects & this pointer
- Pointer to derived classes
- Virtual functions & pure virtual functions

Working with files

- File operations
- File pointer and their manipulation
- File updation with random access

Templates, Exception Handling

- Class templates
- Various Exception Handling classes
- Implementing try and catch block
- Use of throw keyword