PROGRAMMING IN C++

- **_Introduction_**
  - Definition and Introduction of OOPS
  - History of C++
  - Advantage
  - Need
  - C++ Program Structure
- **_Classes and objects_**
  - Class Importance
  - Objects Creation
  - Constructors and Destructors Access Specifiers
  - Inline Functions
  - Introduction to Function Overloading
  - Default Function Arguments
  - Static keyword
- **_Pointers Vs Class Objects_**
  - Pointers and Instances
  - Dynamic Memory Allocation
  - Memory Management and Garbage Collection
  - Creating Object arrays Manipulating
  - Object arrays
- **_C++ Overview_**
  - C++ Characteristics
  - Object-Oriented Terminology
  - Polymorphism
  - Object-Oriented Paradigm
  - Abstract Data Types
  - I/O Services
  - Standard Template Library
  - Standards Compliance

- **_Functions and Variables_**
  - Functions: Declaration and Definition
  - Variables: Definition, Declaration, and Scope
  - Variables: Dynamic Creation and Derived Data
  - Arrays and Strings in C++
  - Qualifiers
- **_Classes in C++_**
  - Defining Classes in C++
  - Classes and Encapsulation
  - Member Functions
- **_Inheritance_**
  - Overview of Inheritance
  - Defining Base and Derived Classes
  - Constructor and Destructor Calls
- **_Polymorphism_**
  - Overview of Polymorphism
- **_Input and Output in C++ Programs_**
  - Standard Streams
  - Manipulators
  - Unformatted Input and Output
  - File Input and Output
- **_Polymorphism_**
  - Concepts
  - Overloading (method & operator)
  - Virtual methods
  - Compile time Polymorphism
  - Run time Polymorphism
  - Built-in streams
- **_Streams and File I/O_**
  - File streams
  - Streams with file handling
  - String streams.

Qualification	**: 10th or Above**
Duration	**: 45 Days**
Course Fees	**: `3,500/-**