



## **SIX WEEKS TRAINING IN C++**

### **Programming in C++:**

- ◇ Programming structure
- ◇ Tokens
- ◇ Variables/Constants
- ◇ Datatypes
- ◇ Various operators
- ◇ Scope of Operators

### **Decision Making Constructs:**

- ◇ Decision Making & branching
- ◇ Decision Making & looping

### **Functions in C++:**

- ◇ Introduction to Functions
- ◇ Argument passing mechanism
- ◇ Pass by value
- ◇ Pass by reference

### **Arrays in C++:**

- ◇ Arrays
- ◇ Single Dimensional
- ◇ Multi Dimensional Array

### **OOPS Principle:**

- ◇ Basic principles of OOPS
- ◇ Classes & Objects
- ◇ Prototyping
- ◇ Memory allocation for classes and objects

- ◇ Access modifiers
- ◇ Array of objects to member functions

## Constructors & Destructors:

- ◇ Constructors & destructors
- ◇ Static members
- ◇ this reference

## Inheritance:

- ◇ Inheritance & its types
- ◇ Derived Classes
- ◇ Abstract class
- ◇ Abstract methods
- ◇ Multiple inheritance

## Polymorphism:

- ◇ Static & Dynamic Polymorphism
- ◇ Overloading methods
- ◇ Overloading Operators
- ◇ Pointers
- ◇ Virtual Functions

## I/O Operations & Files

- ◇ Classes for files
- ◇ Operation of a file
- ◇ File pointers