

Course Brochure

C++ & DATA STRUCTURES

Overview

•C++ Language is one of the approaches to provide object-oriented functionality with C-like syntax. C++ adds greater typing strength, scoping and other tools useful in object-oriented programming and permits generic programming via templates. It is regarded as a middle-level language, as it comprises a combination of both high-level and low-level language features. Some of its application domains include systems software, device drivers, embedded software, high-performance server and client applications, and entertainment software such as video games

Pre-requisites

•Knowledge of any Operating System & 'C' Language preferable.

Applications

- ❖ Overview of Languages
- ❖ Overview of C Language
- ❖ Features of oops, advantages and O.B.P.
- ❖ History of C++
- ❖ Operators and variables
- ❖ Control Statement
- ❖ Functions
- ❖ Structures
- ❖ Class and objects
 - Modes of Class
 - Types of Data Members
 - Types of member Functions
- ❖ Friend Functions
- ❖ Constructors and Destructors
- ❖ Inheritance and types of Inheritances
- ❖ Pointer
- ❖ Polymorphism and virtual Functions
- ❖ Operator overloading
- ❖ Data Type Conversion
- ❖ Management of Console I/O Operations
- ❖ Management of Files and Command line arguments
- ❖ Templates and exception handling
- ❖ Name Spaces and Implementation of Data structures
- ❖ Device Driver Programming
- ❖ Introduction of Adv. Topics
- ❖ Object oriented systems Development