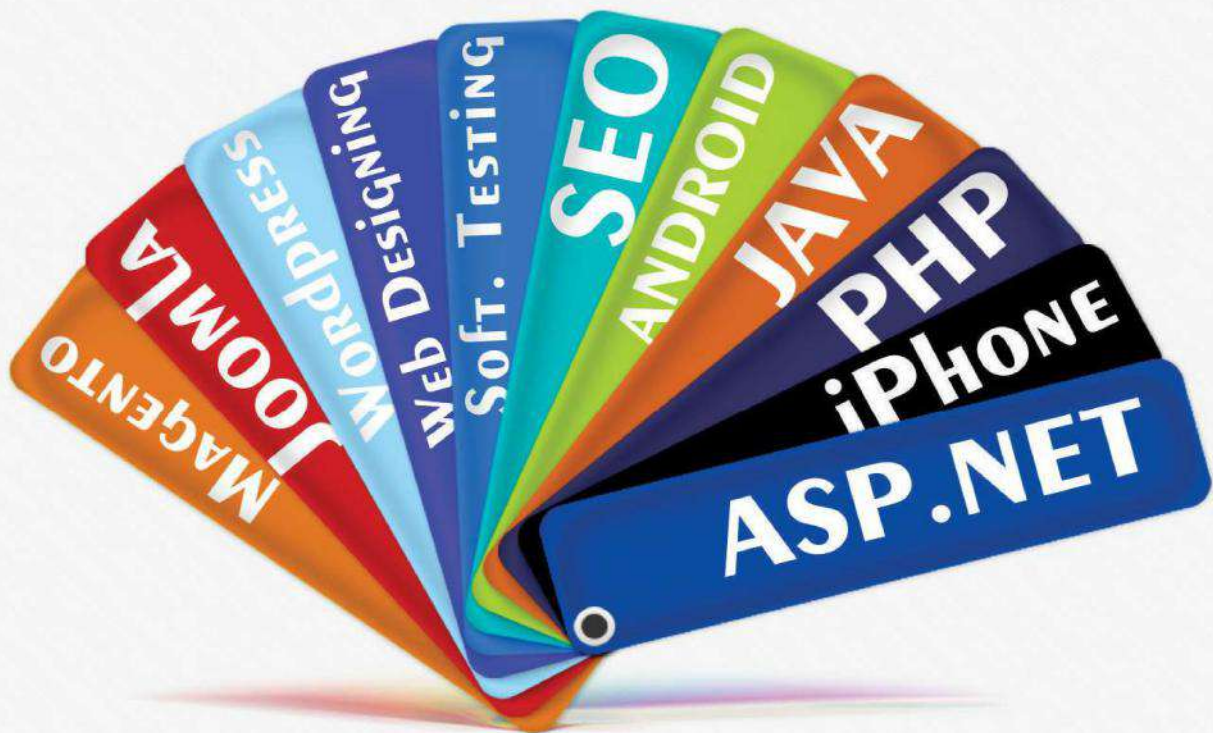


# TOPS Technologies

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## Programming with C, C++

### OTHER COURSES OFFERED

- PHP - .NET - JAVA - C,C++
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# Programming with C, C++

The Program will be divided between the following MODULES:

## MODULE 1 [C PROGRAMMING]

- ⊙ Introduction Of C
- ⊙ C History
- ⊙ Structure of C Programming
- ⊙ Keyword and Identifier
- ⊙ Rules for Identifiers
- ⊙ Variables in C
- ⊙ Declaration of Variable
- ⊙ Constants in C
  - Real Constant
  - Integer Constant
  - Character Constant
  - String Constant
- ⊙ Data types
- ⊙ Managing Input and Output Operations
  - Single Character Input
- ⊙ Declaration of Storage Classes
- ⊙ Types of Storage Class
  - Auto Storage Class
  - Register Storage Class
  - Static Storage Class
  - External Storage Class
- ⊙ Defining Symbolic Constants
- ⊙ Volatile Variable
- ⊙ Types of Operators
  - Assignment
  - Arithmetic
  - Logical
  - Relational
  - Shorthand
  - Unary
  - Conditional
  - Sizeof operator
- ⊙ Type Conversion
  - Implicit type Conversion
  - Explicit Conversion
- ⊙ Decision Making
  - Branching
  - Control Statements
    - ♦ If statement
    - ♦ If else statement
    - ♦ Nested If statement
    - ♦ Else IF Ladder statement
    - ♦ Switch statement
    - ♦ Break Statement
- ⊙ Iteration
- ⊙ Types of Loops
  - While loop
  - Do...While Loop
  - For Loop
- ⊙ Jumping Statements
  - GoTo Statements
  - Break Statement
  - Continue Statement
- ⊙ Array
  - Declaration Of Arrays
  - Initialization of Arrays
  - Multi-dimensional Arrays
- ⊙ String in C
- ⊙ Initializing Strings
- ⊙ Reading Strings From Terminal
- ⊙ String Operations
- ⊙ String Input and Output
- ⊙ Functions
- ⊙ Types Of Functions
  - Built-In Functions
  - User Defined Functions
- ⊙ Recursive Function
- ⊙ Structures And Unions
- ⊙ Pointers
  - Address Operator
  - Pointer Arithmetic
  - Pass By Value
  - Pass By Reference
- ⊙ Pointers to Arrays
- ⊙ Dynamic Memory Allocation
- ⊙ Linked List
- ⊙ File handling
- ⊙ Pre-Processor
- ⊙ Command Line Argument

# Programming with C, C++

## MODULE 2 [C++ PROGRAMMING]

- ⊙ History of C++
- ⊙ Structure Of C++ Program
- ⊙ Comments
- ⊙ Keywords
- ⊙ Identifiers
- ⊙ Scope of Variables
- ⊙ Declaration of Variables
- ⊙ Constants
- ⊙ Data Types
  - Integer Data type
  - Float Data Type
  - Character Data Type
- ⊙ Storage Classes
  - Automatic
  - External
  - Static
- ⊙ Operators
- ⊙ C++ Character Functions
- ⊙ Array
- ⊙ Null Terminated String
- ⊙ OOP's feature
  - Class
  - Object
  - Data Hiding
  - Encapsulation
  - Inheritance
  - Polymorphism
  - Overloading
- ⊙ Member Functions
- ⊙ Inline Functions
- ⊙ Constructor and Destructor
- ⊙ Data Hiding
- ⊙ Inheritance
- ⊙ Polymorphism and Overloading
- ⊙ Virtual Functions
- ⊙ Friend Functions
- ⊙ Static
- ⊙ Memory Management
- ⊙ Command Line Argument
- ⊙ Templates
- ⊙ File I/O

## PRE-REQUISITE

- ⊙ C,C++ Programming

The Program will be divided between the following MODULES:

## MODULE 1 [DATABASE]

- ⊙ DBMS
- ⊙ RDBMS

## MODULE 2 [PL/SQL]

- ⊙ Introduction to PL/SQL
- ⊙ Advantages of PL/SQL
- ⊙ PL/SQL Variables
- ⊙ PL/SQL Constants
- ⊙ PL/SQL Records
- ⊙ PL/SQL Conditional Statements
- ⊙ PL/SQL Iterative Statements
- ⊙ PL/SQL Cursors
- ⊙ PL/SQL Explicit Cursors
- ⊙ PL/SQL Procedures
- ⊙ PL/SQL Functions
- ⊙ Parameters-Procedure, Function
- ⊙ PL/SQL Exception Handling
- ⊙ PL/SQL Triggers
- ⊙ SQL Syntax
- ⊙ SQL Queries



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