



Information Booklet

Course Name:
Programming in C
Course Code: P2



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Programming in C

1. Introduction:

C is one of the most popular programming languages and there are very few computer architectures for which a C compiler does not exist. C has greatly influenced many other popular programming languages, most notably C++, which originally began as an extension to C. C is designed to be compiled using a relatively straightforward compiler, to provide low-level access to memory, to provide language constructs that map efficiently to machine instructions, and to require minimal run-time support.

2. Eligibility:

A minimum educational qualification of being 10th Pass or Basic IT Course

3. Duration:

36 Hours. Two Hours each day

- Theory 8 hours
- Practical 28 hours

4. Course Details:

Type of course	Professional IT Course
Syllabus	<ul style="list-style-type: none"> • Programming Concepts <ul style="list-style-type: none"> • Flowcharts • Algorithms • Data Flow Diagrams • Software Life Cycle • Introduction in C <ul style="list-style-type: none"> • -Identifying the Benefits and Features of C Language • -Using the Data Types Available in C language • -Identifying the Structure of C Functions • -Using the Input-Output Functions • -Using Constructs • Working with Operators and Formatted I/O Functions <ul style="list-style-type: none"> • -Working with Operators • -Using Loops • -Using Formatted Input-Output Functions • Using Arrays <ul style="list-style-type: none"> • -Working with Arrays • -Appreciating Preprocessor Directives • Pointers

- -Declaring and Manipulating Pointers
- -Using Pointers to Manipulate Characters Arrays

- Working with Functions
 - -Implementing Modular Approach in C Programs
 - -Using Library Functions for String Manipulation
 - -Working with Data Storage Types

- File Input-Output
 - -Reading and Writing Contents in a File
 - -Using Random Access in Files

- Working with Files Using Structures
 - -Working with Structures
 - -Using Structures in File Handling

- Low-Level Input/Output
 - -Differentiating Between High-Level and Low-Level Input/Output
 - -Working with Low-Level Input/Output Functions
 - -Using Random Access in Files

- **Mini Project**

5. Fee:

Rs. 2000/- (exclusive of all taxes)