

## Modular C Language .

Program Description: Career

This program is a normal paced C programming course with no pre-requisites. This course starts from the basics of C Language. This course assumes student's familiarity with the procedural design tools like Algorithm and Flowchart. However, the basics of both the above tools will be covered in the initial sections.

This course deals with a few advanced topics in detail, especially :

The C compilation process.

The Arrays and their dynamic creation.

Strings and the various operations on Strings.

Pointers and their uses in Arrays and Structures.

Depending upon various factors like the basic graduation and the demand for the same the students completing this course and the prescribed evaluation scheme shall be eligible for placement in relevant positions (Conditions apply: Please ask for an extended free counselling session before choosing this course on placement criteria)

# 62 Hrs

### Course Contents

#### 1. Language Fundamentals

The C Compilation Process [240 Mins]

General Sections of a c program

Pre-Processor Directives.

Object files and Executable files

Role of Function Main

Compilation process in detail

The C Language fundamentals [480 Mins]

I/O – Printf(),Scanf()

Variables/Constants

Datatypes & their capacity

Operators

#### 2. Language Mechanisms

Constructs and Control Structures

[480 Mins]

...  
Decision Control Structure- Conditions

If.....else if.....else

Ternary operator for Conditional Operations.

Case Control Structure

Switch .... Case

Break

Continue

Loop Control Structures

While

For

Do...while

#### 3. Language Modularisation

Functions & Pointers [660 Mins]

Function Basics

Function main()

User Defined Functions

Life cycle of a function

Call by value

Call by value – Limitations

Pointer basics

Call by reference

Solution to limitations posed by call by value

Recursion

Function Pointers

Arrays

[660 Mins]

Array Definition

Accept and display an array

Passing an array to a function

Pointers to arrays

Multi-Dimensional arrays

Searching and Sorting Algorithms

Strings

[420 Mins]

Accept and display a string

Searching and sorting

Structures & Unions

[480 Mins]

Declare a structure

Use a structure

Array of Structures

Pointers to Structure

Typedef

Unions

Language Mechanisms for Persistence

File Handling [120 Mins]

Mini Project using structures. [Not Included in training time]



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\* Calls are attended to between 9 am to 7 pm (Whatsapp is available 24X7)