

C Language

Duration - 2 Months

- **Module – I [Introduction]**
 - What is computer?
 - Hardware
 - Software
 - Windows Command Prompt
 - Number Systems
 - Storage Units
- **Module – II [Prerequisites]**
 - Computer Architecture
 - Data Representation
 - Computer Languages
 - Language Translators
 - Computer File System
 - Flow Charts
- **Module – III [Programming]**
 - Basic Concepts
 - Conventions and Techniques
 - C Program Structure
- **Module – IV [C Language Basics]**
 - Variable Naming
 - C Tokens
 - Identifiers,
 - Literals, Constants
 - Data Types and Sizes
 - Reserved Words
 - Operators, Expressions
- **Module – V [Input Output]**
 - Function Concepts
 - Using Header Files
 - Input Output Functions
 - Escape Sequences
 - Format Specifiers
- **Module – VI [Control Flow]**
 - Statements and Blocks
 - Decision making statements
 - Using if else statement
 - Using switch case block
 - Looping statements
 - Using while loop iteration
- **Module – VII [Arrays and Pointers]**
 - Arrays Concepts
 - Memory Representation
 - Single Dimension Array
 - Multi Dimension Array
 - Pointers and Addresses
 - Address Arithmetic
 - Pointers with Arrays
 - Types of Pointers
 - Pointer to Pointer
 - Array of Pointers
 - Pointer and Constant
- **Module – VIII [String and String.h]**
 - Character Array
 - String
 - Use Null character
 - Intro of String.h
 - Predefined String function
- **Module – IX [User Define Functions]**
 - Basics of Functions
 - Program Structure
 - Function Prototypes
 - Definition of Functions
 - Invoking Functions
 - Scoping Rules
 - Recursive Functions
 - Call by value & Call by reference
 - Arrays and Functions
 - Pointer to Function
 - Command Line Arguments
 - Auto and Register
 - Static and External
 - Variable Arguments
 - Library Functions
- **Module – X [Structures]**
 - Basics of Structures
 - Abstract Data Types
 - Using Arrays and Pointers
 - Structures and Functions
 - Arrays of Structures
 - Pointer to Structures
 - Anonymous Structure



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- Self Referential Structure
- Base for Data Structures
- Nested Structures
- Floating Point Exception!
- Using Typedef
- Unions, Enums, Bit Fields

- **Module – XI [File Management]**
 - Basics of File Handling
 - Text and Binary Files
 - Sequential and Random
 - File Operations
 - Handling Multiple Files

- **Module – XII [Memory Management]**
 - Dynamic Memory Management
 - Using Library Functions
 - Allocating, Reallocating Memory
 - Memory Leaks, Freeing Memory
 - Null Pointer Assignment!!!

- **Module – XIII [Graphics Programming]**
 - Introducing graphics.h
 - Introducing open Gl

- **Module – XIV [Preprocessor Directives]**
 - File Inclusion
 - Macros and Function
 - User Defined Header Files



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