

Mastering in C Language(Complete C Language Course)
By Rakibul Islam(45 to 50 days course)
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Syllabus:

- Software and Hardware Basics
- Programming Language Basics

C - LANGUAGE

C-Language Basics:

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- History of C-Language
 - Features of C-Language
 - Tokens in C
 - Structure of C-Program
 - Compilation process of a program
 - printf() function
 - Escape Sequences
 - Data Types in C-Language
 - Format Specifiers in C-Language
 - scanf() function

Operators:

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- Arithmetic Operators
 - Relational Operators
 - Logical Operators
 - Assignment Operators
 - Bitwise Operators
 - Other Operators
 - Operator Precedence
 - Type Casting

Control Structures:

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- Conditional Control Structures [if, if else, if else if, nested if]
 - Multi way Conditional Control Structure [switch case]
 - Looping Control Structures [while, do while, for]
 - Jumping Control Structures [goto, break, continue, return]
 - Nested Loops
 - Pattern Programs

Functions:

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- Introduction
 - Types of Functions
 - Different of writing functions
 - Creating Header File
 - Memory Organization
 - Recursion
 - Storage Classes

Arrays:

- Introduction
- Advantages and Disadvantages of Arrays
- Types of Arrays [Single Dimensional & Multi-Dimensional Arrays]
- Passing Arrays to Function
- Array Algorithms(Two pointer, Sliding window etc)

Strings:

- Introduction
- String Functions [strlen(), strcpy(), strcmp(), strcat(), strrev(), strlwr(),strupr() etc.]
- Double Dimensional Character Arrays
- Difference between C string and C++ string
- String Algorithms

Pointers:

- Introduction
- Advantages and Disadvantages
- Pointer Arithmetic
- Pointers and Arrays
- Array of Pointers
- Pointers and Strings
- Pointer to Pointers
- Call by value and Call by Reference
- Dynamic Memory Allocation

User Defined Data Types [Structures, Unions and Enumerations]:

- Structures - Introduction
- Passing Structure to Function
- Returning Structures
- Structures and Arrays
- Array of Structures
- Pointers in Structures
- Structures in Structures
- Unions
- Enumerations
- typedef

Files:

- Introduction
- File Accessing Modes
- File Handling Functions [getc(), putc(), fprintf(), fscanf(), fopen(), fclose()]
- Random Accessing [fseek(), ftell()]

Miscellaneous:

- Macros
- Preprocessor Directives
- Command Line Arguments
- Mcq and Subjective type programming questions(Miscellaneous 150+ subjective

programming questions + Mcqs)

Notes and Question papers will be provided separately.