



MASTERY PROGRAM

A structured, hands-on C program that takes learners from core syntax through pointers, memory management, and data structures – building the low-level foundation every serious programmer needs.

Program Curriculum

01 C Foundations

- Syntax, Variables & Data Types
- Type Conversion, Constants & Operators
- Booleans, If...Else & Switch
- Loops, Arrays & Strings

02 Functions & Recursion

- Functions & Parameters
- Scope & Function Declaration
- Math & Inline Functions
- Recursion & Function Pointers

03 Pointers & Memory

- Memory Address & Pointers
- Dynamic Memory Management
- Structs & Pointers
- Storage Classes

04 Structures, Unions & Enums

- Structures & Nested Structures
- Unions & typedef
- Struct Padding
- Enums

05 File Handling

- Create Files
- Write to Files
- Read Files

06 Error Handling & Debugging

- Errors & Debugging
- NULL & Error Handling
- Input Validation

07 Advanced C Concepts

- Macros & Bitwise Operators
- Fixed-width Integers
- Random Numbers & Date/Time
- Organizing Multi-File Programs

08 Real Projects & Certification

- Hands-on Coding Projects
- Practice Problems & Code Challenges
- C Certification Exam

Who Should Enroll

- ✓ Students & freshers starting their programming journey
- ✓ Engineers moving into embedded or systems programming
- ✓ Anyone wanting a strong low-level programming foundation
- ✓ Candidates preparing for C-based technical interviews

Program Highlights

- ✓ Hands-on Training
- ✓ Expert Mentors
- ✓ Real-World Projects
- ✓ Certification Included
- ✓ Flexible EMI Available