



# C Programming

Category: Programming | Duration: 2 Months (8 Weeks)

~~Rs. 2,500~~

**Rs. 1,500**

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Rs. 1,000**

+ GST (18%) as applicable

## Course Overview

A foundational programming course covering C from basics to pointers, memory management, and data structures - ideal for students building a strong base for computer science fundamentals and technical interviews.

Prerequisites	Tools & Technologies
No prior programming experience required.	GCC/Code::Blocks, VS Code, online compilers

## Curriculum

### Week 1: Introduction to C

- Programming concepts and the C ecosystem
- Variables, data types, and operators
- Input/output functions

### Week 2: Control Statements & Loops

- Conditional statements (if, switch)
- Loops - for, while, do-while
- Break, continue, and nested loops

### Week 3: Functions & Recursion

- Defining and calling functions
- Parameter passing and scope
- Understanding recursion with examples

### Week 4: Arrays & Strings

- 1D and 2D arrays
- String handling and built-in functions
- Common array/string problems

### Week 5: Pointers

- Pointer basics and pointer arithmetic
- Pointers with arrays and functions
- Pointer-based problem solving

### Week 6: Structures & File Handling

- Structures and unions
- Working with files - read/write operations
- Nested structures and arrays of structures



## Week 7: Dynamic Memory & Data Structures Intro

- Dynamic memory allocation (malloc, free)
- Introduction to linked lists
- Basic stack and queue implementation

## Week 8: Mini Project & Assessment

- Build a small console-based application
- Code review and debugging practice
- Final assessment and project presentation

## What You Will Learn

- Write and debug C programs confidently
- Apply control structures, functions, and recursion
- Work with arrays, strings, and pointers
- Use structures and file handling in C programs
- Understand dynamic memory allocation
- Implement basic data structures (linked list, stack, queue)

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