

C Programming Course

Course Overview

The **C Programming Course** is a comprehensive, beginner-friendly, and job-oriented training program designed to build a strong foundation in programming. This course introduces students to programming concepts, problem-solving techniques, and structured programming using the C language. Students will learn to write efficient programs, understand memory management, work with functions, arrays, pointers, file handling, and data structures. Through hands-on coding exercises and real-world projects, learners will develop the skills required for software development and advanced programming languages such as C++, Java, Python, and Embedded Systems.

Course Duration

- **Duration:** 2 Months
 - **Mode:** Online / Offline
 - **Live Projects:** 5+
 - **Assignments:** 50+
 - **Certificate:** Included
 - **Placement Assistance:** Included
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Course Fee

₹2,500/- Only



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Course Curriculum

Module 1: Introduction to C Programming

- Introduction to Programming
 - History of C Language
 - Features of C
 - Installing Code::Blocks / VS Code
 - Structure of a C Program
 - Compilation & Execution Process
 - Input & Output Functions
 - Comments & Coding Standards
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Module 2: Variables & Data Types

- Variables
 - Constants
 - Data Types
 - Keywords
 - Identifiers
 - Operators
 - Type Casting
 - Storage Classes
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Module 3: Control Statements

- if Statement
- if-else Statement
- Nested if
- switch-case
- for Loop
- while Loop
- do-while Loop
- break & continue
- goto Statement

Module 4: Functions

- Function Basics
 - Function Declaration
 - Function Definition
 - Function Calling
 - Function Arguments
 - Return Values
 - Recursive Functions
 - Scope of Variables
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Module 5: Arrays & Strings

- One-Dimensional Arrays
 - Two-Dimensional Arrays
 - Multi-Dimensional Arrays
 - String Handling
 - String Functions
 - Character Arrays
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Module 6: Pointers

- Introduction to Pointers
 - Pointer Variables
 - Pointer Arithmetic
 - Arrays with Pointers
 - Functions with Pointers
 - Dynamic Memory Allocation
 - Memory Management
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Module 7: Structures & Unions

- Structures
 - Nested Structures
 - Arrays of Structures
 - Pointers to Structures
 - Unions
 - typedef Keyword
 - Enumerations
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Module 8: File Handling

- File Operations
 - Reading Files
 - Writing Files
 - Appending Data
 - File Modes
 - Error Handling
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Module 9: Dynamic Memory Management

- malloc()
 - calloc()
 - realloc()
 - free()
 - Memory Leak Prevention
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Module 10: Basic Data Structures

- Searching Algorithms
- Sorting Algorithms
- Linear Search
- Binary Search
- Bubble Sort
- Selection Sort
- Introduction to Linked Lists
- Stack & Queue Basics

Technologies Covered

- C Programming Language
 - GCC Compiler
 - Code::Blocks
 - Visual Studio Code
 - Command Line Tools
 - Git & GitHub (Basics)
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Live Projects

- Student Management System
 - Library Management System
 - Banking System
 - Employee Record Management
 - Inventory Management System
 - Billing System
 - Quiz Application
 - Mini Calculator
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Career Opportunities

After completing this course, students can apply for roles such as:

- C Programmer
- Junior Software Developer
- Embedded Systems Programmer
- Firmware Developer (Foundation)
- Software Engineer (Entry Level)
- Technical Support Engineer
- Programming Trainee

Prerequisites

- Basic Computer Knowledge
 - No Prior Programming Experience Required
 - Suitable for School Students, College Students, Freshers, and Working Professionals
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Certification

Students will receive:

- C Programming Course Completion Certificate
- Live Project Certificate
- Internship Certificate (*if applicable*)
- Placement Assistance
- Resume Building & Interview Preparation



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