💻 C Programming Program

Master the Language that Powers the Foundations of Computing.
 C is the **mother of modern programming languages**—known for its speed, efficiency, and control over hardware. It is the backbone of system software, embedded systems, operating systems, and more.
 At **Certed Technologies**, our **C Programming Program** is carefully designed to provide **a rock-solid foundation in procedural programming, data structures, memory management, and logic building**—skills essential for every software developer.

🌍 Why C? Why Now?

C remains one of the **most powerful and relevant languages** in both academia and industry. Whether you're preparing for **placements, mastering Data Structures, or entering Embedded Systems and IoT**, C is an essential tool.

Why C still matters in 2025:

- ⚙️ Core to Operating Systems, Device Drivers, and Embedded Devices

- 💡 Teaches fundamentals of memory, pointers, and logic—critical for any language

- 🎓 Forms the base for learning C++, Java, Python, and more

- 🏆 Frequently tested in coding rounds and technical interviews

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👨‍🏫 Learn from Experienced C Programmers

Our trainers are software engineers, system programmers, and educators with hands-on experience in **C-based application development, embedded systems, and academic mentoring.** The program is structured for conceptual clarity, hands-on coding, and application building.

🌐 Program Highlights

Feature	Details
Duration	1.5 Months / 45–60 Hours
Delivery Mode	Hybrid (Online + Offline)
Tools Covered	GCC, Turbo C, Code::Blocks, Visual Studio Code
Project Work	3 Mini Projects + 1 Capstone Project
Certifications	Certed Technologies Certificate + C Proficiency Badge
Career Support	Placement Test Prep, Coding Interview Support, Resume Review

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🔍 What You'll Learn

📘 Module 1: Introduction to C & Programming Basics

- History and Evolution of C

- Structure of a C Program

- Compiling and Executing C Code

- Basic Input/Output

📘 Module 2: Data Types, Variables, and Operators

- Keywords, Identifiers, Constants

- Primitive Data Types

- Arithmetic, Logical, Bitwise Operators

- Type Conversions

📘 Module 3: Control Structures & Loops

- Conditional Statements (if, if-else, switch)

- Looping: for, while, do-while

- break, continue, goto (use cases)

📘 Module 4: Arrays, Strings, and Functions

- Single and Multi-Dimensional Arrays

- String Handling with `<string.h>`

- User-defined Functions

- Recursion and Scope

📘 Module 5: Pointers and Dynamic Memory

- Introduction to Pointers

- Pointers and Arrays, Functions, Strings

- malloc, calloc, free, realloc

- Pointer Arithmetic and Applications

📘 Module 6: Structures, Unions & File Handling

- Defining Structures and Unions

- Nested Structures and Arrays of Structures

- File Operations: fopen, fread, fwrite, fclose

- Command Line Arguments

📘 Module 7: Capstone Project

- Sample Projects:

- ○ Student Record System

- ○ ATM Simulation Program

- ○ Mini File Encryption Tool

🎯 Who Should Enroll?

- First-year to final-year Engineering/BCA/MCA students

- Aspirants preparing for **campus placements or GATE/technical interviews**

- Professionals entering **Embedded Systems or System Programming**

- Anyone looking to build **strong programming logic and fundamentals**

💼 Career Outcomes

This course lays the foundation for roles such as:

- System Programmer

- Embedded Developer

- Firmware Engineer

- Application Developer (C/C++)

- Competitive Programmer

Relevant Industries:
IT | Embedded Systems | Electronics | Aerospace | Automotive | IoT | Defense & Robotics

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💡 Tools & Platforms Covered

GCC | Turbo C++ | Code::Blocks | VS Code | Linux Shell | Online Compilers | GDB

🛠️ Sample Project Ideas

- Library Management System

- Bank Management Console App

- Quiz Game in C

- File Compression Tool (Basic)

- Student Report Card Generator

📜 Certification

Earn a **Certed Technologies Certificate** and a **C Programming Proficiency Badge**
showcasing your grasp of low-level programming and logic building.

📢 What Makes This Course Unique?

✅ Systematic from Basics to Advanced Concepts
✅ Practice-Oriented with Problem Solving Sessions
✅ Real Projects with File Handling and Pointers
✅ Excellent for Competitive Programming and Campus Prep
✅ Career Guidance for System and Embedded Roles

📅 Upcoming Batch

Batch Start Date	Mode	Status
15 July 2025	Online	Open

22 July 2025	Offline	Few Seats Left
05 August 2025	Hybrid	Open

🏢 Custom C Programming Training for Colleges & Corporates

Special tracks for:

- First-Year Engineering Orientation Programs

- Placement-Focused Bootcamps (C + DSA)

- Embedded Systems Developer Foundation

- Academic Labs & Coding Clubs

🔧 Customization Options

- Add C + Data Structures Combo

- Include DSA Problem Sets

- Use Linux Environment or Embedded Simulators

- Mock Coding Rounds + Assessments

📞 Talk to an Advisor

✉ Email: support@certedtechnologies.com
📱 Call/WhatsApp: +91-8920158923 | +91-9009015026

🎓 Ready to Master the Language Behind the Machines?

"C is not just a language—it's the blueprint for understanding how computers work."
Start your programming journey with the most fundamental, efficient, and versatile language today.

[📌 Enroll Now]   [📞 Request a Callback]

❓ Frequently Asked Questions (FAQs)

1. **Is this course beginner-friendly?**
   Yes. It starts from absolute basics and gradually builds toward advanced topics.

2. **Is C still relevant in modern tech?**
   Absolutely! It's widely used in embedded systems, OS development, robotics, and more.

3. **Can I take this alongside Python or Java?**
   Yes! In fact, learning C sharpens your logic and boosts understanding of other languages.

4. **Will this help in campus placements?**
   Definitely. C is a core part of most placement coding tests and technical interviews.

5. **Do I need to know Data Structures before taking this?**
   Not at all. This course prepares you with all required fundamentals.