

SOFTPRO INDIA COMPUTER TECHNOLOGIES P LTD

Course Content of C Programming Language

www.trainingatsoftpro.com

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About Softpro Group

Softpro India Computer Technologies (P) Limited, an **ISO 9001:2015 Certified** company which was endowed in 2004 by Technocrats from IIT Kanpur and IET Lucknow is acknowledged to be one of the aggrandizing IT companies in consulting and software development. It is one of the vigorous new generation software solution company providing software development, maintenance to companies in manufacturing and other domains and also is an acclaimed member of **UPDESCO** which facilitates software development in government sectors in UP.

The company has gained incredible establishment in the field of software development with clients of Domestic & International repute like King George Medical University, Medicounsel (US), SGPGI, Karam Industries, Marc Laboratories Ltd., NHMC, Indian Army-Commander Works Engineer (CWE) & DhanLaxmi Enterprises.

“**Softpro Technologies- Malawi, Africa**”, is the latest milestone of Softpro Group. This unit of Softpro Group has been established in Malawi, Africa when the African embassy contacted the management to help them impart I.T. Education and Training in their country. Softpro has been working there to help the government raise the computer literacy rate of the country through our specialized training programs collaborated with the Colleges and Universities of the country.

“**Softpro Learning Center**”, commenced in 2008 with a perception to bridge the Technology Gap prevalent between IT students and IT professionals. Softpro Learning Center has embarked itself as one of the most propitious centers for learning across UP and nearby states. Softpro offers: -

- **Summer Training/ Internship for B.Tech & Diploma – CS, IT, EC, EE, ME & CE Students**
- **Industrial Training for MCA & BCA**
- **Apprenticeship Program for B.Tech & Diploma – CS, IT & EC**

“**Polyprep – Knowledge @ Doorstep**” is a Learning Management System (LMS) designed for the students of B.Tech/MCA/BCA/Diploma for their unstoppable learning on the latest and cutthroat technologies prevailing in the market. The learners can easily login to their account once registered on the portal and can access the course contents & attend live classroom sessions. The platform also provides online courses on Semester subjects as per University/BTE Syllabus of B.Tech & Diploma students. **The LMS is not only in web form but also is available in Android App for those students who don't have laptop or desktop.**

Know About Online Summer Internship

The demand of technically sound, creative and analytical candidates is always high in the market especially when it comes to freshers. Companies never want to spend time and money on training before putting employees on job. Quality solution for this problem is to take technical exposure very seriously and gain practical knowledge as much as you can do.

Register with us and accomplish your Summer Training / Internship Online with Live Streaming Classes. The contents & e-Notes prepared by Industry Experts. Provision of Self-Assessment Tools & Industry Endorsed Projects with Training Program. Also, Placement Opportunities for all the trainees post completion of their course with 24 * 7 assistance during association with Polyprep at Softpro.

Certificate of Completion will be issued to all Trainees.

Audience: B.Tech and Diploma (CS/IT/ME/CE/EE/EC/EI), MCA, BCA & PGDCA.

Admission Enquiry: +91 708010206, +91 7080812070

Registration Link: <https://trainingatsoftpro.com/register.php>

Course Contents on C Programming

Day	Contents	Hours
1.	C Language, an introduction Pre-requisites for C language Types of application developed by using C language Compiler, Interpreter and Assembler, A discussion Execution Scenario of C Program Keywords in C Header Files in C Data Types in C Input and Output in C Exercise on Input and Output Interview Questions	2
2.	Decision Controls If statement If-else statement Nested if-else Ladder if – else	2

	Switch Exercise on Decision Controls Interview Questions	
3.	Loop Controls While loop For loop Nested for loop Do-while loop Exercise on Loop Controls Tricky Question on Loop Controls Interview questions on Loop Control	2
4.	Application Based On Flow Controls Development of Electricity Bill Generation application Development of EVM Development of Temperature Converter	2
5.	Concept of Array in C Declaration and Initialization Taking input from user for an array Sorting and searching Exercise on One dimensional array Tricky questions on array Interview questions on array	2
6.	Concept of two dimensional array Declaration and Initialization Taking input from user for two dimensional array Matrix solutions Exercise on two dimensional array Tricky questions on two dimensional array Interview questions on two dimensional array	2
7.	Use of String in C Built-in functions of string Use of strlen(), strcmp(), strcpy(), strcat() functions Use of getchar() and putchar() functions Exercise on string Tricky questions on string Interview questions on string	2
8.	Pointers in C Use of pointer with array Use of pointer with string Use of pointer with two dimensional array Tricky Questions on Array, pointer and string Interview questions based on Array, pointer and string	2

9.	Function in C Types of functions in C Call by value and call by reference Use string with function Passing array as parameter in function Return array from function Tricky Questions on function Interview questions based on function	2
10.	Concept of Structure in C Declaration of Structure Structure Variable Array of structure variables Structures with Arrays Introduction to Union Declaring Union Difference between Structures and Unions Enumerations Typedef	2
11.	Dynamic Memory Allocation Need of Dynamic Memory Allocation Use of malloc() and calloc() methods Advantages of Dynamic Memory Allocation Difference between malloc() and calloc() methods.	2
12.	File Handling in C File handling requirements File Operations Writing a file Reading a file Editing a File.	2
13.	Data Structure Types of Data Structures Data Structure Operations Stack Push Pop and Traverse operations in stack.	2
14.	Introduction Queue Insert Element into Queue Delete Element from Queue Types of Queues	2
15.	Linked List An Introduction Insertion Deletion Traversing in Linked List Types of Linked List.	2