



GeeksforGeeks

Tech Interview 101

From DSA to System Design
for Working Professionals



4.9
Rating

24*7

Doubt Assistance

CASE- STUDIES

Based Learning

LIVE

Mentorship

-ACE YOUR INTERVIEWS-

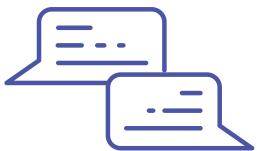
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EXPERT ADVICE

Mr. Sandeep Jain
Founder & CEO - GeeksforGeeks

He started this Journey with just one thought- every geek should have access to a never ending range of academic resources and with a lot of hardwork and determination, GeeksforGeeks was born.

Through this platform, he has successfully enriched the minds of students with knowledge which has led to a boost in their careers. But most importantly, GeeksforGeeks will always help students stay in touch with their Geeky side!

“ I understand that many students who come to us are either fans of the sciences or have been pushed into this field by their parents.

And I just want you to know that no matter where life takes you, we at GeeksforGeeks hope to have made this journey easier for you. ”



COURSE OVERVIEW

In today's fast-paced tech industry, the ability to efficiently solve complex problems and design scalable, robust software solutions is essential for tech professionals.

This comprehensive course is designed to equip you with the skills and knowledge needed to excel in these critical domains: **Data Structures and Algorithms (DSA) and System Design.**



[VIEW DETAILED SYLLABUS](#)

The Doubt Assistance (6 Months) would be available 24X7 in the form of a discussion portal, where there will be mentors and TA's to help you out with any problem you face for a complete year. You can also get your doubts resolved on Google Meet.



COURSE SYLLABUS



Module 01 – Data Structures & Algorithms (Live Lectures)



Week 01

- Class 1 – Analysis of Algorithm
Mathematics
Bit Manipulation
- Class 2 – Arrays



Week 02

- Class 1 – Recursion
Backtracking
- Class 2 – Searching



Week 03

- Class 1 – Sorting
- Class 2 – Matrix
Hashing



Week 04

- Class 1 – Strings
- Class 2 – Linked List

COURSE SYLLABUS



Week 05

Class 1 - Stack

Class 2 - Queue
Deque

Week 06

Class 1 - Tree

Class 2 - Binary Search History

Week 07

Class 1 - Greedy
Heap

Class 2 - Graph

Week 08

Class 1 - Graph Advanced

Class 2 - Dynamic Programming

COURSE SYLLABUS

- **Module 02 – Complete System Design (Recorded Content)**
- Basics of Low Level Design
- Understanding Constructors
- What are UML Diagrams & types
- Learning Core Design Principle
- Advance LLD & use cases
- Understanding various Design Patterns
- Case studies & content
- High Level Design – Basics
- System Design Components – Domain Name System

COURSE SYLLABUS

- System Design Components - Load Balancer
- System Design Components - Scaling
- Exploring Database Architecture
- Database Replication
- Database Sharding
- Database Indexing
- Advance High Level Design
- Caching
- System Design Framework
- Design Problems

***Weekly Live Sessions for Case - Study Discussions**

COURSE BENEFITS



Live Interaction
with the Mentor



Limited
Batch Strength



Contest &
Quizzes



Doubt
Assistance



Course Completion
Certificate



Comprehensive
Content



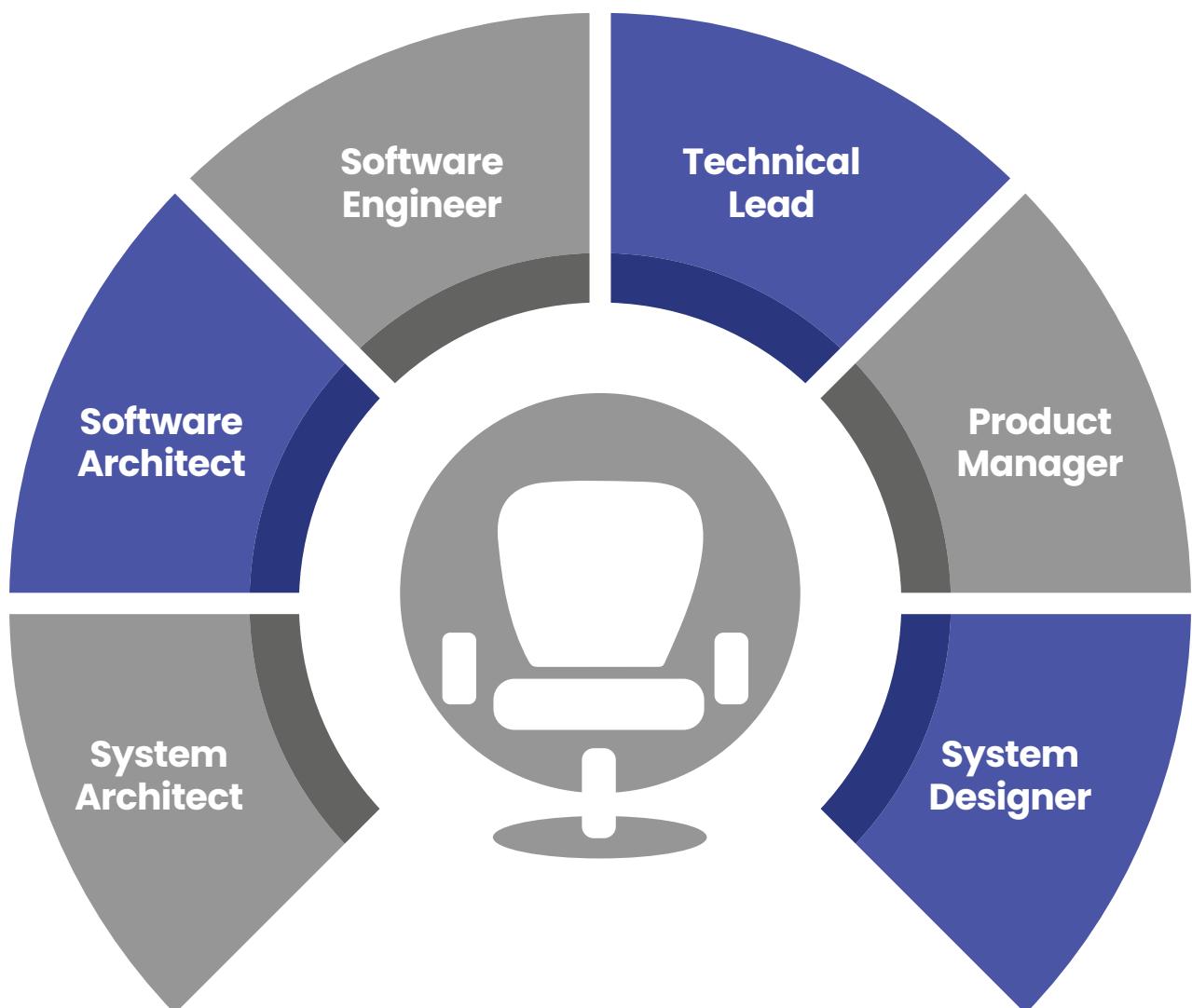
Complimentary
Course Access



Optimized for
Working Professionals

JOB OPPORTUNITIES

From Classrooms to Careers: The Top Job Prospects Waiting for You



WHERE OUR ALUMNI WORK

accenture

Microsoft

Google

amazon

Infosys

intel

Capgemini

Cognizant

wipro

HCL

Goldman
Sachs

ORACLE

airtel

Flipkart



tcs

paytm

CISCO

hp

DELL

salesforce



Success Stories

**Shivani Singh**

Placed in



The live DSA class was amazing. You can ask all your doubts immediately from the mentor, my mentor was amazing, he was so patient. The topics they covered, assignments, and quizzes all of these helped me to achieve my goal. They also provide us with the recordings of the live class, so you will not miss any part. Now I can finally say, I am not scared of DSA anymore. Thank you GeeksforGeeks!

**Saurabh Gupta**

Placed in



Hi, I joined the Advance DSA batch to crack good product-based companies. GFG provided a step-by-step structured path to me to solve coding problems.

The best thing is that the mentors are very supportive. Being a non-CS/IT background, I have learned all the concepts very well and algorithms in very little time. I am really thankful to GFG

**Shail**

Placed as a
Software Engineer at



Thank you so much, Sandeep to provide us with such a beautiful platform like GFG. The way you explained DSA topics actually helped me to learn complex algorithms because of this course, I was able to grasp a complete understanding of data structure and then actively solve problems. I bought a Master System design course on your platform, which helped me get a broad vision of the system. Due to these two courses, I was able to crack all interview rounds of top companies including Amazon, Flipkart, and Walmart. I am looking forward to contributing back to the GFG community

**Hitesh Garg**

Placed as a
Software Engineer at



I had less experience in system design in my current company hence for further interview preparation I need to learn more about system design. This course helped me a lot in learning more about System Design. I liked the way how the course structure is designed. There are more and more practical examples that helped a lot. Mentor was also my favorite from GeeksforGeeks till now. Got to learn more about micro services high-level scalable system design. Because of this course, I was able to crack every single interview of high-level design in all big companies.



REVIEWS

Shubhi Saxena



The course covers all the beneficial topics of DSA and the instructors were easily approachable for any kind of doubts. The course has a good number of problems for our practice!

Hritik Mishra



The course is simply wonderful. Lots of discussions take place, which is great for understanding the concepts. Mentor's knowledge in his subject is just outstanding!

Deepak Singh



This course is an absolute game-changer! The way it breaks down complex concepts into easy-to-understand modules is remarkable. Highly recommended!

Rhythm Bharadwaj



The mentor had complete knowledge of the topics & focused on explaining the concepts deeper. I have learned & understood the concepts with much clarity. Moreover, I would love to explore other courses as well because I think GeeksforGeeks is the best website to enhance one's programming knowledge

QUESTION & ANSWER



I am working in a non-IT industry, I did learn DSA in my college days but want to revise it again and switch to the IT industry as soon as possible. Is this course the right choice for me?

This course is inclusive of pre-recorded lectures on Data Structures and Algorithms which cover the basic part. Also, at the same time, this is a Live course, where you will be able to directly interact with the mentor and get the support that you need to switch to the IT industry. The content of this course is according to the industry requirements. Thus, increasing your chances of getting placed!



What is System Design? What am I going to learn from this course?



System Design is the process of designing the architecture components and interfaces for a system so that it meets the end-user requirements. You will get to learn the approach to design a scalable system and its practical implementation.



Being a working professional I don't have ample time to prepare. Will I be able to cope-up with this course?



Keeping the strict schedule of Working Professionals in mind we keep our batches only on weekends (Sat-Sun) so that it is easy for them to take out time and attend the lectures. Not only this, even if they miss out on any lecture, the recording will be made available to them



Will only theoretical concepts be covered or any implementation of the concepts is also taught?



All the topics mentioned in the course are covered in a structured way. All the theoretical concepts are explained & then practical implementation is carried out in the form of Q's. The Q's are covered in such a way that by the end of the course, you are done with every possible type of Q's which you might face in your interview session.



What if I miss out on any Live-session? How will I cover up?



To help out the students in every possible way, we provide the recordings of the Live lectures that are conducted. If a student misses out on any lecture, he/she can find the recordings and can go through them. In case of any further queries, they can be resolved with the help of the mentor. The recordings are uploaded in the next 48 hours of the class and are available to students for a duration of 1 year post the completion of the course.



How does Doubt Support work?



There are two ways in which a student can get their doubts resolved:

1. During the weekend live classes, you can directly ask doubts from the mentor.
2. There is an inbuilt Doubt Support in the course. You can simply comment & ask your doubts there. Furthermore, if your doubts are still not resolved, the mentor would be connecting with you over Google Meet to resolve your doubts.



What is the checklist that I need for my Interview Preparation?



- ✓ Proficient in Data Structures & Algorithms
- ✓ Good knowledge of System Design
- ✓ Company wise Questions
- ✓ Good problem solving & analytical skills
- ✓ Interview Experience Articles

STILL UNSURE ABOUT COURSE?

Tech Interview 101

From DSA to System Design
for Working Professionals



Get 1:1 Free Counselling



Geeks Learning Together!

A-143, 9th Floor, Sovereign Corporate Tower,
Sector-136, Noida, Uttar Pradesh - 201305

For any query, Connect us at:

courses@geeksforgeeks.org

