





**CODECHEF**

**New Batches (Software Engineering), JOIN NOW**

## **System Design :**

LLD and HLD with Real World Case Studies

## **Computer Fundamentals :**

OS, DBMS & Networking Mastercourse

## **Backend Development :**

From Fundamentals to Career Readiness

## **Full Stack Development :**

From Fundamentals to Career Readiness



# Join Our EXCLUSIVE BATCHES (Software Engineering)

Resolve to  
become an  
Expert level  
Programmer in  
2021 and  
Subscribe at an  
expense even  
lesser than  
**INR 90/day**

## SYSTEM DESIGN

2 MONTHS  
COURSE

~~LLD~~ and ~~HLD~~ with  
Real World Case  
Studies

LIVE ON **21 JUNE 2021**



## COMPUTER FUNDAMENTALS

2 MONTHS  
COURSE

~~OS~~ ~~DBMS~~ &  
~~Networking~~  
Mastercourse

LIVE ON **22 JUNE 2021**



## BACKEND DEVELOPMENT

4 MONTHS  
COURSE

From Fundamentals to  
~~Career Readiness~~

LIVE ON **21 JUNE 2021**



## FULL STACK DEVELOPMENT

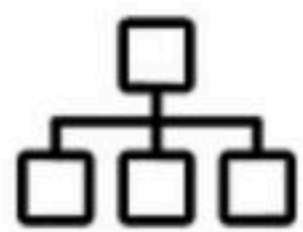
4 MONTHS  
COURSE

From Fundamentals to  
Career Readiness

LIVE ON **21 JUNE 2021**







Structured  
Learning  
Path



One Subscription &  
Unlimited Access to  
All Batches/ Courses



Successfully contest  
in competitions like  
ICPC and CodeJam

Resolve to  
become an  
Expert level  
Programmer in  
2021 and  
Subscribe at an  
expense even  
lesser than  
**INR 89/day**



Crack Interviews of Top  
Product Companies



Best Coders of  
India as Educators



Subscription Fee <  
90 Rs. per day

# TENTATIVE TOPIC WISE COURSE STRUCTURE

## System Design Part 1- LLD

### Class No. 1

**Introduction to System Design-** Importance of System Design and Interview Aspects of it

### Class No. 2-3

**LLD:** Introduction and Design Principles- OOP and SOLID

### Class No. 4-6

**Design Patterns:** Creational, Behavioral and Structural DPs

### Class No. 7-8

**LLD Case Studies and Real World Design Problems for Interview Readiness**



# TENTATIVE TOPIC WISE COURSE STRUCTURE

## System Design Part 2- HLD

### Class No. 9-10

**HLD-** Introduction to High Level Design and **Web Application Architecture**

### Class No. 11 -12

**Distributed Systems:** Latency, Throughput, Availability, Consistency, Redundancy, CAP Theorem

### Class No. 13

**Scalability:** Vertical/ Horizontal Scaling, Load Balancing

### Class No. 14 -15

**Databases:** NoSQL, Indexing, Partitioning, Polyglot Databases, Denormalization

### Class No. 16-17

**Performance Optimization, Security and Communications**

### Class No. 18 -20

**HLD Case Studies:** Real-life implementation of applications built by FAANG companies



# TENTATIVE TOPIC WISE COURSE STRUCTURE

## Computer Fundamentals

### Class No. 1-4

**Computer Networks-**  
Introduction, Transport  
Layer, Network Layer &  
App Communication

### Class No. 5-8

**DBMS/ RDBMS:**  
Modernization, Queries  
and Use Cases

### Class No. 9-11

**Operating Systems:**  
Concept to Detail to  
Tackle Interview  
Questions

### Class No. 12-13

**Object Oriented  
Programming (OOP):**  
Principles and  
Implementation



# TENTATIVE TOPIC WISE COURSE STRUCTURE

## Interview Batch for College Students

### Week 1-2

**Sorting & Searching :**  
Complex Applications  
for Interviews

### Week 3

**Two Pointers and  
Bit Manipulation**

### Week 4

**Backtracking-**  
Classical & FAANG  
Interview Problems

### Week 5 - 7

**Basic Data  
Structures-**  
Handpicked Problems  
for Interviews

### Week 8 - 11

**Advanced Data  
Structures and  
Square Root  
Decomposition**

### Week 12 -14

**String Algorithms-**  
Concept to Detailed  
Applications



# TENTATIVE TOPIC WISE COURSE STRUCTURE

## Interview Batch for College Students

### Week 15

Game Theory and  
Greedy Algorithm

### Week 16-18

Advanced Dynamic  
Programming: Learn  
Complex  
Implementations

### Week 19-21

Graph Algorithms-  
Tackling Complex  
Interview Questions

### Week 22-24

Interview Problems  
asked in FAANG/  
top product  
companies



# TENTATIVE TOPIC WISE COURSE STRUCTURE

## Backend Development with System Design

### Week 1-3

LLD Core Principles,  
Design Patterns and  
Real-World Case  
Studies

### Week 4-5

HLD, Web Application  
Architecture,  
Distributed Systems,  
Scalability

### Week 6-7

Databases,  
Performance  
Optimization, Security,  
Communication and  
Case Studies

### Week 8

MVC Architecture

### Week 9-11

Data Handling and  
Databases in Web  
Development

### Week 12-15

Web Backend, Rest  
APIs and Project  
Building



# TENTATIVE TOPIC WISE COURSE STRUCTURE

## Full Stack Development with System Design

### Week 1-3

LLD Core Principles,  
Design Patterns and  
Real-World Case  
Studies

### Week 4-5

HLD, Web Application  
Architecture,  
Distributed Systems,  
Scalability

### Week 6-7

Databases,  
Performance  
Optimization, Security,  
Communication and  
Case Studies

### Week 8

Web Fundamentals  
and HTML

### Week 9-10

CSS Layouts, Real  
World Implementation  
of HTML and CSS

### Week 11-15

JavaScript Principles,  
React, React Hooks,  
Redux and Project  
Building



# Our Educators

**ICPC World Finalists, CodeForces Grandmasters, Alumni  
of Top Product Companies**





## What You Will Get ?

### Live Interactive Classes

Attend live interactive classes with our top educators. Interact during class with educators to get all your doubts resolved



### Practice Relevant Problems @ CodeChef

Each class comes with a set of curated practice problems to help you apply the concepts in real time.



### Doubt Support

If you get stuck in any problem post class- Get your doubts resolved by our expert panel of teaching assistants and community members instantly



Resolve to become an Expert level Programmer in 2021 and  
Subscribe at an expense even lesser than  
**INR 90/day**



# Meet Our Educators



**Tanuj Khattar**

ACM ICPC World Finalist - 2017, 2018. Indian IOI Team Trainer 2016-2018. Worked @ Google, Facebook, HFT. Quantum Computing Enthusiast.



**Sanket Singh**

Software Development Engineer @ LinkedIn | Former SDE @ Interviewbit | Google Summer of Code 2019 @ Harvard University | Former Intern @ISRO



**Pulkit Chhabra**

Codeforces: 2246 | Codechef: 2416 | Former SDE Intern @CodeNation | Former Intern @HackerRank



**Riya Bansal**

Software Engineer at Flipkart | Former SDE and Instructor @ InterviewBit | Google Women TechMakers Scholar 2018



**Triveni Mahatha**

Qualified ICPC 2016 World Final. Won multiple Codechef Long Challenges (India). ICPC Onsite Regionals' Problem setter and Judge. IIT Kanpur.



**Arnab Chakraborty**

Six Sigma Master Black Belt-IQF(USA),AMT by AIMA,NLP & PMP Trained,ITIL-APMG(UK),Control & Automation-ISA(USA),"Star Python"-Star Cert.(USA)



# Meet Our Educators



**Himanshu Singh**

World Finalist ICPC 2020, Winner Techgig Code Gladiators 2020, Winner TCC '19, 2020 CSE Graduate from IIT BHU, Works at Nutanix



**Utkarsh Gupta**

I'm a competitive programmer. I am red on CF and 6\* on Codechef. I have been teaching CP on various platforms for approx a year.



**Deepak Gour**

ICPC World Finalist 2020 | Former Instructor @InterviewBit | Software Engineer at AppDynamics



**Nishchay Manwani**

Hey I am Nishchay Manwani from CSE, IIT Guwahati and I'm a Seven star on Codechef and International Grandmaster on Codeforces.



**Arjun Arul**

ICPC World Finalist 2012 & 2013, Coach @ IOITC



**Vivek Chauhan**

Codechef: 7 stars (2612) India Rank 6, Codeforces: MASTER (2279), Won Codechef Long Challenges(India), TCO20 Southern Asia Runner up

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