

DSA + System Design + Java Development

Course Details

Module 01 ●

Data Structures and Algorithms (DSA)

- Revision of fundamental Data Structures: Arrays, Linked Lists, Stacks, Queues, Trees, Graphs, etc.
- Advanced Algorithms: Searching, Sorting, Dynamic Programming, Greedy Algorithms, etc.
- Problem-solving techniques and algorithmic analysis

Module 02 ●

System Design Fundamentals

- Introduction to System Design principles and methodologies
- Scalability, Availability, and Performance considerations
- Designing Distributed Systems and Microservices architecture

Module 03 ●

High-Level Design (HLD)

- Understanding requirements and translating them into high-level architectural designs
- Design Patterns and Architectural Styles
- Scalable and fault-tolerant design principles

Module 04 ●

Low-Level Design (LLD)

- Detailed design of individual components/modules
- Object-Oriented Design Principles
- Designing for extensibility, maintainability, and reusability

Module 05 ●

Integrating Data Structures and Algorithms (DSA)

- Review of Data Structures and Algorithms in Java
- Integrating DSA concepts into Java Development
- Solving algorithmic problems and implementing data structures in real-world scenarios

Module 06 ●

Live Projects in Java Development with Spring Boot

- Collaborative Project Work in Teams
- Building Robust Java Applications using Spring Boot
- Hands-on experience with industry-standard tools and practices

Assessment and Certification ●

- Regular Quizzes and Assignments to Assess Understanding
- Final Java Development Project using Spring Boot
- Course Completion Certificate

Duration & Prerequisites ●

- The course is designed to be completed in 4 months.
- Basic understanding of programming concepts and familiarity with Java programming language is recommended.

Who Should Enroll ●

- Aspiring Java Developers looking to master the language and its frameworks
- Software Engineers seeking to enhance their Java programming skills and advance their career
- Anyone interested in building robust Java applications using Spring Boot

Want to get placed as a software engineer ?

80%

Student Placed

44LPA

Highest Package

10LPA

Average Package

Outcome

By the end of this course, participants will have a comprehensive understanding of Java Programming Language and its application in building enterprise-scale applications using Spring Boot framework. They will be proficient in developing RESTful APIs, implementing security features, and integrating data structures and algorithms into their Java projects, enabling them to build

Our Mentors



Vaibhav Goyal

NIT WARANGAL

(Mentor : DSA and Full Stack)



Drishti Mamtani

BITS PILANI HYDERABAD

(Mentor : Data Science
and Analytics Part)



Shubham Mondal

IIT KHARAGPUR

(Mentor : DSA and Coding)



Our Students Are Placed In

