

Complete Java Development with Spring Boot

Course Details

Module 01 •

Java Basics

- Introduction to Java Programming Language
- Variables, Data Types, and Operators
- Control Flow: Conditional Statements and Loops
- Arrays and Strings
- Object-Oriented Programming (OOP) Concepts: Classes and Objects

Module 02→

Intermediate Java Concepts

- Inheritance, Polymorphism, and Abstraction
- Interfaces and Abstract Classes
- Exception Handling
- File Handling and I/O Operations
- Generics and Collections Framework

Module 03 →

Advanced Java Concepts

- Multithreading and Concurrency
- Reflection and Annotations
- Java Virtual Machine (JVM) Internals
- Design Patterns in Java
- Functional Programming with Lambdas and Streams

- Module 04 ◆-

Java Development with Spring Boot

- Introduction to Spring Framework and Spring Boot
- Building RESTful APIs with Spring MVC
- Data Access using Spring Data JPA
- Security with Spring Security
- Microservices Development with Spring Boot



Module 05 -

Java Development

- Intermediate to Advanced Java Programming Concepts
- Java Collections Framework and Stream API
- Multithreading and Concurrency in Java

Module 06 •

Advanced Java Development

- Spring Framework for building enterprise-scale applications
- RESTful API Development with Spring Boot
- Database Integration and ORM (Object-Relational Mapping)

- Module 07 **-**

Live Projects in System Design and Java Development

- Real-world System Design Projects
- Implementation of High-Level and Low-Level Designs
- Hands-on experience with Java Development and Spring Framework

Assessment and Certification -

- Regular Quizzes and Assignments to Assess Understanding
- Final System Design and Java Development Project
- Course Completion Certificate

Duration & Prerequisites —

- -The course is designed to be completed in 4 months.
- -Prior experience with programming and basic understanding of Data Structures and Algorithms is recommended. Familiarity with Java programming

Who Should Enroll —

- Working professionals aiming to enhance their skills in Data Structures, System Design, and Java Development
- Software Engineers looking to advance their career by mastering high-level and low-level design concepts
- Anyone interested in learning Java programming language and its application in building scalable software systems



Outcome -

By the end of this course, participants will have a comprehensive understanding of Data Structures, System Design, and Java Development. They will be proficient in designing scalable and maintainable software systems, implementing high-level and low-level designs, and developing Java-based applications using industry-standard frameworks and best practices.

Our Mentors



Vaibhav Goyal

NIT WARANGAL

(Mentor : DSA and Full Stack)



Drishti Mamtani
BITS PILANI HYDERABAD
(Mentor : Data Science
and Analytics Part)



IIT KHARAGPUR (Mentor : DSA and Coding)







Our Students Are Placed In























