

Java Development – Advanced

Enhance your Java programming skills with advanced topics and techniques.

Category: Programming · Duration: 3 days

WHO IT IS FOR

- Java developers
- Practitioners who already use it daily and want to go further

This course is designed for experienced Java developers who want to further expand their knowledge and skillset in Java development. You will learn advanced topics such as multithreading, performance optimization, design patterns, and more. By the end of the course, you will be able to develop high-quality, robust Java applications that meet the demands of modern software development.

Prerequisites

Prior experience with Java programming and basic understanding of object-oriented concepts.

Syllabus

- Introduction to Advanced Java Development
- Multithreading and Concurrency
- Java Memory Management and Garbage Collection
- Performance Optimization Techniques
- Java Design Patterns
- Working with Java Frameworks
- Networking and Socket Programming
- Java Security Best Practices
- Unit Testing and Test-Driven Development
- Web Services and API Development
- Java Reflection and Metaprogramming
- Java Lambdas and Functional Programming
- Java Streams and Parallel Processing
- Introduction to JavaFX for UI Development
- Building Scalable and Distributed Java Applications