

#	Category	Keywords	Topics	Books	Videos	Articles
1	Core Java	Java, OOP, Exception handling, Collections Framework, Generics, Java , Concurrency, Multithreading, Lambda Expressions, Functional Programming	Java Language Fundamentals	<a href="#">Complete Reference (Chapter 1 - 3), Head First</a>	01 Welcome to the course Java Essentials Full Course, Java Full Course for Beginners - YouTube	
2			Object-Oriented Programming (OOP)	<a href="#">Complete Reference (Chapter 6 - 9), Head First (Chapter 7 - 9)</a>	01 Welcome to the course Java Essentials Full Course	<a href="#">Object-Oriented-Programming Concepts in Java   Baeldung</a>
3			Exception Handling	<a href="#">Complete Reference (Chapter 10), Head First(Chapter 11)</a>	01 Welcome to the course Java Essentials Full Course	<a href="#">Exception Handling in Java   Baeldung</a>
4			Collections Framework	<a href="#">Complete Reference (Chapter 19), Head First (Chapter 16), Java Generics and Collections</a>	java-collections-vdo	<a href="#">Java Collections Series   Baeldung</a>
5			Generics	<a href="#">Complete Reference (Chapter 14), Java Generics and Collections</a>	Course Intro - Generics In Depth [01] - Java Brains	<a href="#">Lesson: Generics (Updated) - Java™ Tutorials</a>
6			Java 8+ Features (e.g., Optional, Date-Time API)	<a href="#">Complete Reference (Chapter 14)</a>		
7			Concurrency & Multithreading	<a href="#">Complete Reference (Chapter 11 and 28)</a>	<a href="#">Java Concurrency - Full Course by Java Brains</a>	<a href="#">Java Concurrency Series   Baeldung</a>
8			Lambda Expressions & Functional Programming	<a href="#">Complete Reference (Chapter 15 and 29), Functional Programming in Java, Functional (Declarative Approach) Programming in Java</a>	Java 8 Lambda Basics 1 - Introduction	<a href="#">Lambda Expressions and Functional Interfaces: Tips and Best Practices   Baeldung</a>
9			String and Utils	<a href="#">Complete Reference (Chapter 17, 18 and 20)</a>		<a href="#">Strings - Learning the Java Language</a>
10	Spring Boot & Framework	Spring, Spring Boot, Dependency Injection, Spring Boot starters, Spring Boot configuration, Spring Boot Actuator, Spring Profiles, Reactive Programming	Spring Boot Basics	<a href="#">Spring Boot in Action (Chapter 1)</a>	Spring Boot Quick Start 1 - Introduction, Top 10 Spring Annotations to know in 2024 - YouTube	
11			Dependency Injection	<a href="#">Spring Boot in Action (Chapter 2)</a>	#6 Dependency Injection using Spring Boot - YouTube, #4 IoC and DI in Spring - YouTube, #7 Autowire using Spring Boot - YouTube	
12			Spring Boot Starters	<a href="#">Spring Boot in Action (Chapter 2)</a>	Top 7 Spring Boot Starters You Should Know in 2024 - Java Brains	
13			Spring Boot Application Configuration	<a href="#">Spring Boot in Action (Chapter 3)</a>	ConfigurationProperties explained - Microservice configuration with Spring Boot [06] - YouTube, Using external property sources with Spring Boot - Microservice configuration with Spring Boot [04], Introducing Spring Cloud Config Server - Microservice configuration with Spring Boot [10]	
14			Spring Boot Actuator	<a href="#">Spring Boot in Action (Chapter 7)</a>	Spring Boot Quick Start 33 - Spring Boot Actuator - YouTube	
15			Spring Boot Swagger			
16	Reactive Programming	Reactive Streams, Spring WebFlux, Backpressure, Flow Control, Error Handling, Reactive MongoDB, R2DBC	Reactive Spring	<a href="#">Reactive Spring by Josh Long</a>	Reactive Spring, 3rd edition by Josh Long, 01 Course Introduction (Reactive programming with Java - full course), <a href="#">Project Reactor Essentials</a>	
17	Microservices Patterns	API Gateway, Monitoring, Logging, Tracing, Microservices Security, Service Resilience and Fault Tolerance, Circuit Breaker, Retry Patterns, Rate Limiting	Spring Boot Microservices	<a href="#">Spring Microservice in Action (Chapter 2)</a>	01 Agenda - Spring Boot Microservices Level 1	
18			Spring Cloud Configuration	<a href="#">Spring Microservice in Action (Chapter 3)</a>	Microservice configuration with Spring Boot [01] - Java Brains	
19			Spring Cloud Resiliency	<a href="#">Spring Microservice in Action (Chapter 5)</a>	1 Agenda and prerequisites - Spring Boot Microservices Level 2	
20			Spring Security	<a href="#">Spring Microservice in Action (Chapter 7), Spring Security in Action</a>	What is Spring Security really all about? Java Brains Brain Bytes, OAuth 2.0 and OpenID Connect (in plain English) - YouTube	
21			Event Driven Architecture	<a href="#">Spring Microservice in Action (Chapter 8)</a>		
22			Logging and Tracing	<a href="#">Spring Microservice in Action (Chapter 9)</a>		
23	Testing	Integration Testing , Spring Boot Test, MockMvc, TestRestTemplate, BDD, TDD, Parameterized and Nested Tests , JUnit 5	Spring Boot Test	<a href="#">Spring Boot in Action (Chapter 6)</a>	Spring Boot testing: Zero to Hero by Daniel Garnier-Moiroux - YouTube, Introduction to Testcontainers	