Objective of Java Training: Comprehensive Understanding of Programming Using Java, Spring boot to build high performing APIs with right Software Programming Practices including - Quality, Security, Performance.

Hands on assignment – After every week an assignment helps us assess the understanding of the topic(s)

Duration: 100 hours
8 hours per week
(12 - 13 weeks) – (2.5 - 3 months)

Training Weeks	Topics
Week 1	Pre-read: 1. https://www.javatpoint.com/history-of-java 2. https://en.wikipedia.org/wiki/Java_(programming_language) Topics covered: ● Java programming basics ● JDK, JRE, and JVM ● Variables, data types, operators, iterations, methods Post reads – Links and hands on assignment(s) 1. https://www.baeldung.com/java-tutorial 2. Assignments will be shared during class
Week 2	Pre-read: 1. https://www.studytonight.com/java/string-handling-in-java.php 2. https://www.javatpoint.com/java-string Topics covered: ● References, classes and objects ● String handling
Week 3	Pre-read: 1. https://www.javatpoint.com/java-oops-concepts

	• OOP - Abstraction, encapsulation, modularity, hierarchy • Methods Overriding, Overloading • Abstract methods and classes, interfaces, polymorphism • Packages and Access Control
Week 4	Pre-read: 1. https://www.geeksforgeeks.org/exceptions-in-java/ 2. https://www.geeksforgeeks.org/java-io-packag/ Topics covered: • Exception handling • Input Output Stream • Java NIO
Week 5	Pre-read: 1. https://www.udemy.com/course/everything-you-need-to-know-about-jdbc/?couponCode=A5A6B962FD34717963B6 2. https://www.mysqltutorial.org/mysql-basics/ Topics covered: • Database Concepts • Different databases used (MySQL, Postgres, MongoDB) • Why and when to use a certain type of database • JDBC
Week 6	Pre-read: 1. https://www.javatpoint.com/java-annotation 2. https://www.geeksforgeeks.org/generics-in-java/ 3. https://www.geeksforgeeks.org/collections-in-java-2/ Topics covered: • Java annotations • Generics • Collection framework
Week 7	Pre-read: 1. https://www.udemy.com/course/spring-framework-masterclass-from-basics-to-advanced/?couponCode=081A75E29415276932D5 • Spring Basics • IOC and DI • Annotations

Week 8	Pre-read: 1. https://www.udemy.com/course/develop-java-mvc-web-apps-using-mybatis-servlets-and-jsp/?couponCode=489693CB0E5D9EF33ADB ● Spring MVC ● Introduction to Spring boot
Week 9	Pre-read: 1. https://www.udemy.com/course/developing-restful-java-web-services-using-spring-boot/?couponCode=FC99DC2EDC5B378D8257 ● Introduction to REST ● REST Concepts ● Implement CRUD Post reads – Links and hands on assignment(s)
Week 10	● Unit testing Spring boot applications
Week 11	● Java Challenge for TMs ● Assessment