Course Outline

Introduction to Java programming

a) Writing code in JAVA and project in eclipse
b) Object oriented programming with Java Classes and Objects
c) Abstraction, Encapsulation, Polymorphism & Inheritance
d) Exception handling
e) Collections and Generics Framework
f) Reflection
g) Debugging

Spring Project

a) Spring Architecture
b) Dependency Injection principal
c) Creating Project in MAVEN

Spring Advance Java Programming

a) Database Access and Permissions with Spring
b) Hibernate Architecture & ORM Framework
c) Integrating Spring with Hibernate

Spring MVC Application

a) Understanding MVC Pattern
b) Project in IOC AOP MVC
c) SOA Architecture & Maven, Spring and hibernate
d) Securing Application in Spring

Spring Boot

a) Learn to Install Spring Tool Suite
b) Learn to Build A Project
c) Spring Boot Configuration Approaches
d) Spring Boot Importing Bean
e) Spring Boot Managing bean and its dependencies
f) Spring Boot Auto configuration

Spring Boot Web Application

a) Spring Boot web applications, WAR deployment
b) web applications, RESTful services & JSON
c) Data JPA & Hibernate configuration with MYSQL
d) Spring boot JDBC Template
e) Spring boot with react front end

Spring Boot Microservices

a) Microservices & Monoliths & SOA
b) Microservice Architecture
c) Demonstration on Architecture Challenges & Solutions
d) Understanding security concerns

Spring Cloud configuration

a) Understanding Spring Cloud
b) Netflix Service Registry and Discovery
c) Configuring Eureka Server
d) Registering Eureka Clients
e) Demonstration on Service Registry & Discovery & Naming Server

Circuit Breaking

a) Understanding Hystrix
b) Implementing Circuit Breaking With Hystrix
c) Configuring Hystrix
d) Hystrix Dashboard

Ribbon Load Balancing

a) Microservice Project with Client Project Setup
b) Ribbon Configuration

Zuul Edge Service

a) Understanding Zuul
b) Proxying With Zuul
c) Routing Configuration
d) Zuul Filtering

Spring Cloud Security

a) Postman Installation in chrome
b) Authorization Server Installation
c) OAuth Resource Server
d) Configuring OAuth Client
e) Database Setup
f) Client and Token Management

Code Management GITHUB

a) All industrial concepts related to git.

REACT JS

a) React introduction
b) API calling through React js

DEV-OPS Concepts

a) Complete end to end delivery of product using jenkin