

Course Code	
Course Name	Microservices

Duration (in days)	2	Proficiency Level	Fundamental
Pre-requisites	<ul style="list-style-type: none"> <li>Spring Web MVC</li> <li>Spring Boot</li> </ul>	Target Audience	Campus Hires

## Learning Outcome

At the end of the program, participants will learn

- Introduction to Microservices
- Core Microservice Patterns using Spring Cloud and Netflix OSS
- Service Registry Eureka
- Implement Client Load Balancing with Ribbon

## Day wise Session Plan

Day	Unit	Objectives	Hours
1	Introduction to Microservices	<ul style="list-style-type: none"> <li>• What are Microservices?</li> <li>• Decentralized Governance, Scalability, Fault Tolerance</li> <li>• Cloud Computing</li> <li>• Spring Cloud</li> </ul>	4
2	Core Microservice Patterns using Spring Cloud and Netflix OSS	<ul style="list-style-type: none"> <li>• Understand the major components of Netflix OSS</li> <li>• Where are my Services?                             <ul style="list-style-type: none"> <li>▪ Using Service Discovery</li> <li>▪ Eureka Servers and Clients</li> </ul> </li> <li>• Scale Services                             <ul style="list-style-type: none"> <li>▪ Load Balancing with Ribbon using Service Discovery</li> <li>▪ A LoadBalanced RestTemplate</li> <li>▪ Load Balancing with Ribbon without Service Discovery</li> </ul> </li> </ul>	12
		Total	16