**Course Sheet Template**

**Name: Micro Services with Spring Boot**

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| Approved by | Date: |  |

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| **Version No.** | **Date** | **Affected Sections** | **Brief Description of Change** |
| 1.0 | 30-Aug-2019 | All | New format created |

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## **Definition and Purpose**

1. **Objective:** This tutorial has been prepared for beginners to help them understand the basic concepts of Micro Service Architecture and help them to implement Micro Service using Spring Boot
2. **Scope:** At the end of training, Participants will have strong knowledge on Micro Services. Will be able to develop the Micro Services using spring Boot
3. **Content:**

* Introduction to Microservice Architecture
* Difference in Monolithic / SOA / Microservice architecture
* DDD & its application in MSA
* Microservice design patterns
* Choreography vs Orchestration
* (Monolithic) Application decomposition
* Swagger for microservices development
* Event Sequencing & CQRS
* 12 Factor application development
* 15 factor application development

1. **Methodology/Training Aids:** Implementing Blended training approach which contains 50% classroom training and 50% practice time.
2. **Target Audience:** Participants who have knowledge of Core Java, Servlet, JSP, Web Services, SOA, Spring and Spring Web MVC can attend this training.
3. **Pre – requisites for Audience Profile:** Audience should have a basic knowledge of Core Java, Servlet, JSP, Web Services, Spring DI IOC and Spring Web MVC. As we are going to develop Micro Services with Spring Boot, it will be good if you have an understanding of other Spring Boot basics
4. **Duration:** 8 hours
5. **Evaluation Criterion:** Evaluation will be based on MCQ test. Passing Percentage: 70

1. **Session Plan:**

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| **Schedule** | | |
| Sr. No | Topic | Duration (In Min) |
| 1 | * Introduction to Microservice Architecture * Difference in Monolithic / SOA / Microservice architecture * DDD & its application in MSA * Microservice design patterns * Choreography vs Orchestration * (Monolithic) Application decomposition * Swagger for microservices development * Event Sequencing & CQRS * 12 Factor application development * 15 factor application development | 320 mins |