Day - 1

- **What Is Performance Testing?**
  - Introduction
  - The Demo Application
  - What Is Performance Testing?
  - What Can J Meter Do?5m
  - Types of Performance Tests

- **Introducing JMeter**
  - Introduction
  - How JMeter Works?
  - Installation Requirements
  - Installation and Directory Structure
  - Running JMeter
  - Configuring Plugins

- **Configuring a Test Plan**
  - Structure of a Test
  - Test Plan
  - Thread Groups
  - Configuration Elements
  - Controllers and Samplers
  - Timers
  - Assertions
  - Listeners
  - Execution Order and Rules
  - Running the Test

- **Recording a Test**
  - Introduction
  - Configuring the Browser
  - Firefox Proxy Setting for Localhost
  - Configuring the Test Script Recorder
  - Recording a Test Script
  - Organizing the Recorded Script
  - Recording an HTTPS Website

- **Assertions in Jmeter**
  - How to validate Jmeter tests- Pass/Fail status
  - Different types of Assertions which can you use on Jmeter tests

Day - 2

- **Configuring a Dynamic Test**
  - Introduction
  - Getting Data from a CSV File
  - Using Pre- and Post-processors
  - Using JMeter Functions
  - Improving the Test Script
  - Using Test Fragments

- **Collecting and Analyzing Test Results**
  - Introduction
  - Using Listeners
  - Monitoring Server Metrics
  - JMeter Report Dashboard

- **Http cookie Managerto capture sessions**
  - Why we need to add cookie manager in tests?
  - Usage of cookie Manager in jmeter tests

- **Jmeter controllers for Modules wise Metrics**
  - How controllers helps to track performance of Modules of application
  - Importance of Transaction controller and Simple controller
  - InterLeave Controller Usage on Jmeter tests
  - Runtime and Random Controllers usage in Jmeter
  - If and Loop controller Importance for Stress testing

- **Timers in Jmeter**
  - Timers usage in Jmeter
  - Constant Throughtput Timer Importance

- **Regular Expression in Jmeter**
  - Why we need regular expression extractor concept in Jmeter
  - Practical example on Flight search Application with Regex Extractor
  - Combining multiple expressions into Single extractor

- **Data Driven testing in Jmeter**
  - How to Datadrive the data into application
  - Datadriven Testing with Jmeter example
  - Datadriven code dump

- **Handling Dynamic Responses**
  - What is Correlation?
  - Steps to identify correlation and analysing it
  - Regular expression importance in Parsing the responset
  - Regular expressions code
  - Handling Correlation with Scrpting techniques

- **Jmeter NON GUI mode**
  - o Commands to run tests on non GUI Mode
  - o Monitoring results in Non GUI execution
  - o Importance of Blaze meter for cloud execution

- **Stress and Load Testing using JMeter**
  - o What is Load testing?
  - o Need for Load testing
  - o Objectives of Load testing
  - o How to perform Load testing using JMeter
  - o What is Stress testing?
  - o Purpose of Stress testing
  - o How to perform Stress testing using JMeter