**Course Syllabus -What you are going to Learn?**

Please note that this course goal is to Learn Cucumber and implement framework for Selenium tests. So basic Selenium knowledge is prerequisite skill to have before you see part 2 of the course.

This course is divided into 2 Parts.

In part 1 , You will get complete understanding of all Cucumber features and its framework functionalities which does not require any prerequisite. Below are the topics discussed in part 1

1. Understand Gherkin Syntax
2. Understand Cucumber Scenarios
3. Feature files & Step Definition files
4. cucumber Test Runner (Junit & TestNg)
5. Cucumber regular expressions
6. Cucumber tags & Background keyword
7. Cucumber Scenario outline for parameterization
8. Cucumber Datatables
9. Cucumber hooks
10. Tagged Hooks mechanism
11. Cucumber plugins
12. cucumber reports
13. Cucumber attributes
14. Cucumber Parallel execution

In Part 2- We will inject Selenium code and develop end to end Cucumber Selenium Framework from Scratch. Below are the topics

1. Build Maven Project with all the framework dependencies
2. Develop End to end Selenium Web Scenarios in the feature file
3. Implement TestNG /Junit Runner to run the framework
4. Understand the Single responsibility principle to distribute the implementation into multiple Step definitions.
5. Importance of Dependency injection to share the data between the Steps file
6. Understand the Page object Pattern to drive the locators from page files
7. Implement Factory Design pattern by writing PageObjectManager class to create objects of all PO classes
8. How driver can be configured and distributed across the files in the framework
9. How to run Cucumber Scenarios in Parallel Mode using Cucumber TestNG Runner
10. Build Test utilities for reusable Selenium methods
11. Implement Cucumber Hooks to capture Screenshots on test failures
12. Implement Cucumber Tags to run selected tests in the framework
13. Parameterizing the test data to run the Scenarios with multiple data sets
14. Creating HTML & Extent reports to run Cucumber Selenium tests
15. Running tests in parallel mode and generate Extent reports with screenshots attached for failed Scenarios
16. Run the cucumber tests using Maven & Command line options
17. Integrate the Framework to CI/CD Jenkins and Schedule the Jobs on regular time Interval
18. Create Parameterized Jenkin job to dynamically send the global properties at run time of Job execution