# Selenium Course Content

## 1) Introduction to Automation
   a) What is automation?
   b) When to use Automation?
   c) Advantages of Automation
   d) Criteria for Automation

## 2) Introduction to Selenium
   a) What is selenium?
   b) Use of selenium
   c) When selenium can be used in Testing?
   d) Features of selenium
   e) Difference between Selenium and QTP

## 3) Selenium Components
   a) Selenium IDE
   b) Selenium RC
   c) Selenium WebDriver
   d) Selenium Grid
   e) SELENDROID

## 4) Configuaration of IDE and Dev Script
 a) Recording script
 b) Running script
 c) How to save recorded Script?
 d) Object identification
 e) Difference between Test case and Test suite
 f) Language supported while recording?
 g) Synchronization in selenium IDE
 h) Testing vs Selenium IDE
 i) When to use Selenium IDE?
 j) Why companies are not using recording tool?

## 5) Creating enviroment for Selenium RC

1) Creating generic script in selenium
2) Creating script by using functions
3) Running the script in eclipse
4) Inheritance
5) Browser command with example
6) Interactive commands with examples
7) Validation commands with examples
8) How to take data from excel sheet?
9) Exoprt data into excel sheet
10) How to export result after compilation of test script?
11) How to use eclipse?
**12) Debugging script
13) How to handle pop-up's and alter message?
14) Connecting to Database

## 6) Developing reusable script for any project
1) Validation
2) What is validation?
3) What is use of validation in the Automation Testing?
4) When to use validation in real time?
5) How to use validation?

## 7) Junit Introduction
1) Start from scratch
2) Understanding unit testing framework
3) Setting up Junit
4) Testing with Junit

## 8) Object Repositary
1) What is Object Repositary?
2) How to use Object Repositary in framework
3) What is use of maintaining Object Repositary Type
   of Creating Object Repositary

## 9) Additional Concept

1) How to use Xpath?
2) How to use DOM?
3) How to use Key commands?

## 10) Selenium 2/ Selenium WebDiver

1) Selenium 2.0 features
2) Selenium server-When to use?
3) Setting up selenium WebDiver Project
4) Migrating from Selenium1
5) Getting started with selenium-webDriver
6) commands and operations
7) Web-Driver Backed Selenium RC
8) Programs on WebDriver
9) Programs on WebDriver -Backed Selenium RC

## 11) TestNG Framework
1) Whatis TestNG
2) Creating TestNG.xml file
3) Integrate selenium script and run from TestNG
4) Reporting Result and Analyz
5) Run the script from multiple browsers

## 12) Automation Life Cycle
1) Framework
2) What is framework?
3) Typs of Framework
5) What is modular Framework?
6) What is Data Driven Framework?
7) What is keyword driven Framework?
8) What is hybrid Framework?
9) Use of Framework?
10) Exaplain about your Framework
11) How to develope Framework?
12) Integration of Framework
13) How to execute script from Framework?
14) How to handle non GUI(Desktop) element
15) Introduction to Sikuli
16) Integration of Sikli with Selenium in eclipse
17) Develope the code with Sikuli and Selenium