

Selenium Syllabus :

- By

GharSeCode (GSC)

Course Title: Selenium Automation Testing

Course By : GSC (Ghar Se Code)

Duration: 3 Hrs

Code Spirit : Automate the Ordinary, Master the Extraordinary

Topics	Detailed Overview
Introduction to Automation Testing	What is Automation Testing? Benefits of Automation Manual vs Automation Overview of Selenium
Selenium Components	Selenium IDE Selenium WebDriver Selenium Grid
Environment Setup	Installing Java Installing Eclipse/IDEA Installing Selenium WebDriver Browser Drivers
Basic Java for Selenium	Java Basics (Variables, Data Types, Operators) Control Structures (if, switch, loops) OOP Concepts (Class, Object, Inheritance, Polymorphism) Collections Framework Exception Handling
Locators in Selenium	Types of Locators: id, name, className, tagName, linkText, partialLinkText, cssSelector, xpath
WebDriver Interface	Browser Commands Navigational Commands Get Commands Close & Quit Methods
Handling Web Elements	Textboxes, Buttons, Links, Dropdowns Checkbox, Radio buttons Alerts, Popups
Waits in Selenium	Implicit Wait Explicit Wait Fluent Wait
Advanced User Interactions	Mouse Hover Right Click Double Click

	Drag and Drop Keyboard Events
TestNG Framework	Installing TestNG Annotations in TestNG Assertions Parallel Execution TestNG Reports
Page Object Model (POM)	Creating POM structure Using PageFactory Advantages of POM
Data-Driven Testing	Reading data from Excel Apache POI Introduction
Selenium Grid	What is Selenium Grid? Setting up Hub and Node Running Tests in Parallel
Framework Design	Designing a Hybrid Framework Maven Project Structure Log4j for Logging Extent Reports
Real-time Project	Creating Test Scripts for Web Application Bug Reporting Best Practices