

SELENIUM WITH PYTHON AUTOMATION COURSE CURRICULUM



ENROLL NOW



**CALL US
+91 630 171 9270**

Module 1: Introduction to Selenium with Python

- Overview of Selenium
- Downloading Selenium Python Bindings
- Installing Browser Drivers (Chrome, Firefox, etc.)
- Setting Up Selenium for Windows
- Downloading Selenium Server
- Verifying Environment Setup

Module 2: Getting Started with Selenium

- Writing the First Selenium Script using Python
- Step-by-Step Code Walkthrough
- Running Tests on Local and Remote WebDriver
- Selenium Best Practices for Python Users

Module 3: Navigating Web Pages

- Interacting with Web Elements
- Filling Forms using `send_keys()`
- Drag and Drop with ActionChains
- Switching Between Windows and Frames
- Handling Pop-Up Dialogs (Alerts, Confirms)
- Browser Navigation – Forward, Back, Refresh
- Managing Cookies (Add, Delete, Get)

Module 4: Locating Elements

- Locating Elements Using:
 - By ID
 - By Name
 - By XPath
 - By Link Text / Partial Link Text
 - By Tag Name
 - By Class Name
 - By CSS Selectors
- Practical Examples for Each Locator Strategy

Module 5: Handling Waits

- Implicit Waits
- Explicit Waits using `WebDriverWait`
- Understanding Expected Conditions
- Best Practices for Synchronization in Tests

Module 6: Page Object Model (POM)

- Creating Page Object Classes
- Defining Locators and Page Elements
- Writing Maintainable Test Cases
- Benefits of Using POM in Test Automation

Module 7: WebDriver API Deep Dive

- Handling Exceptions in Selenium
- Using Action Chains for Mouse/Keyboard Events
- Working with Alerts and Modal Windows
- Sending Special Keys (ENTER, ESCAPE, TAB)
- Desired Capabilities in WebDriver
- Touch Actions (for Mobile Automation)
- Using Proxies with WebDriver
- Utility Functions for Testing
- Understanding WebDriver Service Layer

Module 8: Browser-Specific WebDriver Configuration

Firefox WebDriver

- Firefox Options, Profile, Binary
- Connecting Extensions

Chrome WebDriver

- Chrome Options, ChromeDriver Service

Safari, Opera, IE, Android, PhantomJS

- Safari WebDriver & Service
- Internet Explorer Setup
- Android & Mobile Web Testing
- PhantomJS Headless Testing

Remote WebDriver

- WebDriver Commands & Error Handling
- Remote Connection Utilities
- Mobile Testing with Remote WebDriver

Module 9: Selenium Support Utilities

- Select Class for Drop-down Menus
- Wait Support Utilities
- Color and CSS Support
- Event Firing WebDriver & Event Listeners
- Custom Expected Conditions

Module 10: Real-World Scenarios & FAQs

- How to Use ChromeDriver Effectively
- Does Selenium 2 Support XPath 2.0?
- Scrolling Techniques for Web Pages
- File Upload Handling
- Screenshot Capture of Current Window
- Auto-saving Files with Firefox Profile
- Using Firebug with Firefox

Thank you



Thank You for Going Through Selenium with Python Automation Curriculum
We hope this guide has provided a clear and structured learning path to
strengthen your skills in Selenium with Python Automation.

✦ NEXT STEPS

- Start practicing with real-world use cases and hands-on exercises
- Build personal or client-based projects for your portfolio
- Keep exploring updates and best practices in the industry
- Join discussions and stay connected with the community

 **Need Help or Guidance?**

Feel free to contact our course support team:
Course Coordinator

GS Infotekh

 **contact@gsinfotekh.com**

 **www.gsinfotekh.com**

 **+91 630 171 9270**