

VERSION

25

**SR. CODE**

EAPL/CRASH/CRTC28

**COURSE CODE**

EACSP

**SUB CATEGORY**

TESTING

  
TOTAL DURATION  
**45**  
HOURS

  
THEORY TAKEN  
**08**  
HOURS

  
PRACTICAL TAKEN  
**37**  
HOURS

ELYSIUM  
ACADEMY  
SELENIUM  
PYTHON COURSE  
**ELYSIUM  
ACADEMY  
SELENIUM  
PYTHON COURSE**  
ELYSIUM  
ACADEMY  
SELENIUM  
PYTHON COURSE  
ELYSIUM  
ACADEMY



## COURSE DESCRIPTION



The Selenium Python course offers comprehensive training in test automation, focusing on Selenium WebDriver with Python. Participants learn to automate web browser interactions, perform testing tasks, and generate detailed test reports.

## COURSE GOALS



By completion, students will proficiently write automated test scripts using Selenium WebDriver with Python, conduct functional and regression testing, and integrate testing frameworks like Pytest.

## FUTURE SCOPE



Graduates will be in high demand as QA engineers, test automation engineers, or software developers. With Selenium's widespread usage in the software industry, opportunities abound in various domains, ensuring a promising career path in test automation and quality assurance.



# 01

## CHAPTER

### SELENIUM PYTHON

#### 1. Introduction to python

- a. What is python
- b. Why do we need selenium
- c. Selenium with Java and Python  
(Pros & Cons)
- d. Program Structure

#### 2. Python Programming

- a. Basic programming in Python
  - Data Type
  - Collection
- b. Function in python
- c. Modules
- d. Simple class and objects
- e. Example programs
- f. Installation setup

#### 3. Selenium Web driver

- a. Introduction to web driver
- b. Accessing forms in Web driver
- c. Accessing link and table



**02**  
HRS



**03**  
HRS



# 02

## CHAPTER

### NAVIGATING

- a. Interacting with the page
- b. Filling in forms
- c. Drag and drop
- d. Moving between windows and Frames
- e. Popup dialogs
- f. Navigation: history and location
- g. Cookies
- h. Accessing Links and Table Content in Web driver



**01**  
HRS



**04**  
HRS

# 03

## CHAPTER

### LOCATING ELEMENTS

- a. Locating by ID
- b. Locating by Name
- c. Locating by X Path
- d. Locating Hyperlinks by Link Text
- e. Locating Elements by Tagline
- f. Locating Elements by Class Name, CSS Selectors



**01**  
HRS



**04**  
HRS

# 04

## CHAPTER

### WAITS

- a. Explicit Waits
- b. Implicit Waits



**01**  
HRS



**04**  
HRS



# 05

CHAPTER

## MOUSE ACTIONS

- a. Mouse Hover
- b. Double Click
- c. Right Click
- d. Drag and Drop

  
**01**  
HRS

  
**04**  
HRS

# 06

CHAPTER

## UPLOAD AND DOWNLOAD FILES

- a. Upload File
- b. Download File

  
**01**  
HRS

  
**04**  
HRS

# 07

CHAPTER

## CAPTURE SCREENSHOTS

- a. Screenshots

  
**01**  
HRS

  
**04**  
HRS

# 08

CHAPTER

## UNIT TEST FRAMEWORK

- a. Keywords (setup, tear down)
- b. Skipping Tests
- c. Assertion
- d. Create / Execute Test cases and Test Suites

  
**01**  
HRS

  
**04**  
HRS



# 09

## CHAPTER

### **PYTEST FRAMEWORK**

- a. Install Pytest
- b. Pytest - Fixtures (yield)
- c. Pytest – Multiple ways to Run test cases



**01**  
HRS



**04**  
HRS



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