

## Title of Course: Automation Tester Assistant

Class: B.VocIII (Soft.Dev)

Skill Level: 8

### Department of B.Voc (Software Development)

1. Title: **Automation Tester Assistant**
2. Year of implementation: 2020

### Structure of Course

Skill level	Theory Periods	Practical Periods	Total Periods	Credits	No. of Students in batch
8	20	30	50	03	30

## Syllabus

### Learning Objectives:

1. Understand software testing and life cycle.
2. Learn meaning of automation testing.
3. Design and execute test cases using selenium IDE.

### Theory Syllabus (20 Hrs.)

#### **Unit I: Software testing life cycle**

Introduction, Principles of Software testing, Importance of software testing, test planning- Object, Scope, assumptions, risks and mitigation, entry and exit criteria, test cases design- write test cases, review test cases, test case template, types of test cases, difference between test scenarios and test cases, Test cases Execution, Types of bugs, life cycle of Bugs, Reporting bugs.

#### **Unit II: Automation testing with selenium IDE**

What is automation testing, Advantages & disadvantages, History of selenium IDE, why Selenium tool, Different components in selenium, Installation and introduction to IDE, creating script using record and playback, Selenium programming.

- **List of Experiments: -----24 hr.**

**Practical List:**

- 1) practical on installation of selenium IDE
- 2) Create first script using selenium ide
- 3) Test Gmail Login Logout functionality in IDE.
- 4) Test Gmail login functionality with incorrect username and correct password.
- 5) How do you check title of a window, Create a test case using it.
- 6) Create test case using store and echo command.
- 7) Install firebug and practice inspecting elements.
- 8) Test prompt and alert commands in IDE.

- **Project/ Field Visits/ Industrial Visit-----06 hr.**

**Learning Outcome:**

At the end of this course,

- Students will understand basic concepts of Software testing.
- Students will be able to demonstrate difference between Manual and automation testing.
- Students will do automation testing using selenium tool.

**Reference books:**

- 1) The Art of Software Testing, 3rd Edition Glenford J. Myers, Corey Sandler, Tom Badgett.
- 2) Software Testing: A Craftsman’s Approach, Fourth Edition Paul C. Jorgensen
- 3) Software Testing Techniques, 2nd edition **Boris Beizer**

**BOS Sub Committee:**

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