

## SOFTWARE TESTING AND CASE TOOLS LAB

**Course Code:** 15IT2117

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| <b>L</b> | <b>P</b> | <b>C</b> |
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**Pre Requisite:** Software Engineering.

### **Course outcomes:**

At the end of the course, a student will be able to

**CO1:** Write test suites for a given software.

**CO2:** Demonstrate testing process in Selenium IDE.

**CO3:** Test websites using eclipse.

**CO4:** Draw different UML diagrams.

**CO5:** Develop models using UML tools.

### **Part A**

1. Implement Automation Testing Approach.
2. Using Selenium IDE, Write a test suite containing minimum 4 test cases.
3. Develop a test suite for any two web sites.
4. Install Selenium server and demonstrate it using a script in Java.
5. Write and test a program to login on any web page.
6. Write and test a program to update N student records in any file.
7. Write and test a program to categorize a set of students based on the performance grading system.
8. Write and test a program to provide total number of objects available on a web page.
9. Write and test a program to get the number of items listed in a combo box on a web page.
10. Write and test a program to count number of check boxes on any web page.

### **Part B**

1. The student should take up the case study of Unified Library application which is mentioned in the theory, and Model it in

different views i.e Use case view, logical view, component view, Deployment view, Database design, forward and Reverse Engineering, and Generation of documentation of the project.

2. Student has to take up another case study of his/her own interest and do the same what ever mentioned in first problem. Some of the ideas regarding case studies are given in REFERENCES which were mentioned in theory syllabus can be referred for some idea.

Note : The analysis, design, coding, documentation, database design of mini project which will be carried out in 4th year should be done in object-oriented approach using UML and by using appropriate software which supports UML, otherwise the mini project will not be evaluated.

### **TEXT BOOKS:**

1. Unmesh Gundecha, “*Instant Selenium Testing Tools Starter*”, 1st Edition, Packet Publishing, 2013.
2. Grady Booch, “*The Unified Modeling Language User Guide*”, 1st Edition, Pearson Education, 2008.

### **REFERENCES:**

1. K. V. K. K. Prasad, “*Software Testing Tools*”, Dreamtech, 2004.

### **WEB REFERENCES:**

<http://docs.seleniumhq.org>

## NOTES