

## LAB EXPERIMENTS

**Course Outcomes(CO):**

**C01:** Demonstrate software testing tools.

**CO2:** Create test design documents and test reports.

Week	Experiment	CO mapping
I (1)	Introduction to Software Testing: Functional and non Functional Testing, Writing Test cases, Testing Framework, Test Documents.	CO2
II (2)	Writing test cases for Unit Testing, Integration Testing and System Testing	CO2
III (3)	<b>Static Testing:</b> Data Flow Analysis, Control Flow Analysis, Cyclomatic Complexity	CO1, CO2
IV (4)	<b>Dynamic Testing</b> <b>White Box Testing:</b> Statement Coverage, Branch Coverage, Path Coverage	CO1 CO2
V (5)	<b>Black Box Testing:</b> Equivalence Class Partitioning, Boundary Value Analysis, Cause Effect Graphing and Decision table technique, Use case testing, State Transition	CO1, CO2
VI (6)	<b>Selenium:</b> Introduction, Installing Selenium IDE, Installing Firebug Plug-in, Installing FirePath	CO1
VII (7)	Recording and Replaying Test Cases, Creating and Running Test Suite	CO1 CO2
VIII (8)	Study of Selenese Commands	CO1
IX (9)	Matching Text Patterns	CO1
X (10)	Test Automation Using Selenium WebDrivers using Java	CO1
XI (11)	Selenium: Cross Browser Compatibility(Internet Explorer, Chrome and Firefox)	CO1, CO2
XII (12)	Performance Testing Concepts :Load Testing, Stress Testing Using WAPT	CO1

### Course Outcome and PO,PSO Mapping

CO/PO/PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 9	PSO1	PSO2
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<b>CO1</b>	<b>Y</b>	<b>---</b>	<b>---</b>	<b>Y</b>	<b>Y</b>	<b>---</b>	<b>Y</b>	<b>Y</b>	<b>---</b>	<b>Y</b>
<b>CO2</b>	<b>---</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>--</b>	<b>Y</b>	<b>---</b>	<b>---</b>