**LAB EXPERIMENTS**

**Course Outcomes(CO):**

**CO1:** Demonstrate software testing tools.

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

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| **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)** | **Static Testing:** Data Flow Analysis, Control Flow Analysis, Cyclomatic Complexity | **CO1,**  **CO2** |
| **IV (4)** | **Dynamic Testing**  **White Box Testing:** Statement Coverage, Branch Coverage, Path Coverage | **CO1**  **CO2** |
| **V (5)** | **Black Box Testing:** Equivalence Class Partitioning, Boundary Value Analysis, Cause Effect Graphing and Decision table technique, Use case testing,State Transition | **CO1,**  **CO2** |
| **VI (6)** | **Selenium:** 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**

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| **CO/PO/PSO** | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 9** | **PSO1** | **PSO2** |
| **CO1** | **Y** | **---** | **---** | Y | **Y** | **---** | **Y** | **Y** | **---** | Y |
| **CO2** | **---** | **Y** | **Y** | **Y** | **Y** | **Y** | **--** | **Y** | **---** | **---** |