Course Code	SOFTWARE TESTING LAB	L	T	P	C
21A050419	(Common to CSE, CSE-AI, AIML, CSE-IOT)	0	0	3	1.5
Pre-requisite	Object Oriented Programming through Java	Semester	V		

COURSE OBJECTIVES:
➢ To understand the fundamentals for various testing methodologies.
➢ To describe the principles and procedures for designing test cases.
➢ To explore debugging methods.

COURSE OUTCOMES:
After completion of the course, the student will be able to
    CO1: Illustrate the basic testing procedures. **(K2)**
    CO2: Formulate test cases and test suites **(K6)**
    CO3: Choose Selenium tools to perform testing **(K3)**
    CO4: Construct and test simple programs. **(K6)**
    CO5: Describe bug tracking **(K2)**

CO-PO MAPPING:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	-	3	-	2	-	-	-	-	-	-	-	3	-
CO2	2	-	-	-	2	-	-	-	-	-	-	-	1	-
CO3	3	2	3	2	-	2	-	-	-	-	-	-	2	1
CO4	3	-	2	-	-	-	-	-	-	-	-	-	2	-
CO5	-	3	3	-	-	2	-	-	-	-	-	-	-	2

LIST OF EXPERIMENTS:

MANUAL TESTING: (USING C LANGUAGE)
    1. Write a 'C' program to demonstrate the working of the following constructs:
a). do…while
b). while
c). if …else
d). switch
e). for Loops in C language.
    2. A program written in c language for matrix multiplication fails "Introspect the causes for its failure and write down the possible reasons for its failure".
    3. Take any system (e.g. ATM system) and study its system specifications and report the various bugs.
    4. Write the test cases for any known application (e.g. Banking application)
    5. Create a test plan document for any application (e.g. Library Management System).

AUTOMATION TESTING : (using Selenium)

1. Write a script to open google.com and verify that title is Google and also verify that it is redirected to google.co.in.
2. Write a script to open google.co.in using chrome browser (ChromeDriver).
3. Write a script to open google.co.in using internet explorer (InternetExplorerDriver).
4. Write a script to login Next Generation Automation.
5. Write a script to close all the browsers without using quit() method.
6. Write a script to test the cookie creation.
7. Write a script to test the Gmail Login & Logout procedure.
8. Write a script to test the Facebook Account Creation.
9. Write a script to test the Google Cache Selection.
10. Write a script to test the Gmail Composing Dynamically.

TEXTBOOKS:

1. "Software Testing: Principles and Practices", Srinivasan Desikan, Gopalaswamy Ramesh, 1st Edition, Pearson Education.
2. "Software Testing: Principles and Practices", Naresh Chauhan, 2nd Edition, Oxford University Press
3. "Java Complete Reference", Herb Schildt, 9th Edition, Oracle press.