GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Bachelor of Vocation (B.Voc.), 5th Semester
Branch: Information Technology
Subject Name: Software Testing
OJT Elective: (SSC-Q4901)
Subject Code: 1150507

Type of subject: Practical

Prerequisite: Python Programming

Rationale: Machine learning practices enhance the learning experience by providing students with the skills, experiences, and insights needed to succeed in the rapidly evolving field of machine learning. They offer a dynamic and engaging way for students to apply theoretical knowledge and gain a deeper understanding of the challenges and opportunities in the concerning field.

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Marks				Total Marks
				Theory Marks		Practical Marks		
L	T	P	C	ESE (E)	PA (M)	ESE (V)	PA (I)	
0	0	30	15	0	0	100	100	200

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; C Credit; ESE- End Semester Examination; PA- Progressive Assessment

Course Details:

Sr. No.	Chapter Details	Hours
1.	PC1. identify any issues with the requirements for testing and clarify these with appropriate people	10
2.	PC2. access reusable scenarios, test cases, scripts and tools from your organization's knowledge base	5
3.	PC3. create or modify high level scenarios relevant to the requirements	5
4.	PC4. create or modify test cases relevant to the requirements	5
5.	PC5. identify test cases that can be automated feasibly	5
6.	PC6. create or modify automated scripts relevant to the requirements	10
7.	PC7. access or create test data relevant to the requirements	10
8	PC8. create a test plan to cover all the requirements	10
9	PC9. review the test plan, test cases and/or automated scripts with appropriate people	10
10	PC10. rework the test plan, test cases and/or automated scripts, incorporating feedback	5

11	PC11. submit the test plan, test cases and/or automated scripts for approval by appropriate people	5
12	PC12. update your organization's knowledge base with your experiences of designing tests for software products/ applications/ modules	10
13	PC13. comply with your organization's policies, procedures and guidelines when designing tests for software products/ applications/ modules	10
14	PC14. establish with appropriate people the nature the testing to be carried out and the test management tool to be used	10
15	PC15. verify that you have the latest versions of the test cases and automated scripts	10
16	PC16. verify that you are working with the correct versions of the application and data	10
17	PC17. execute the automated test scripts according to instructions	15
18	PC18. log the test progress, results and defects discovered, using the agreed test management tool	15
19	PC19. analyse the results to develop a clear understanding of the defects	15
20	PC20. articulate clearly your understanding of the defects during defect management discussions	10
21	PC21. obtain advice and guidance from appropriate people in case of problems with testing that are beyond your level of competence or authority to resolve	5
22	PC22. comply with your organization's policies, procedures and guidelines when carrying out automated tests on software products/applications/modules	10
Total		200

Course Outcome:

Sr. No.	CO Statement	Weightage (%)
CO-1	Demonstrate Admin Functionality	10
CO-2	Maintain Database	15
CO-3	Develop Website Registration and Testing	15
CO-4	Develop data for Storing and Fetching data	15
CO-5	Generate Reports	10
CO-6	Handling multiple browsers	15
CO-7	Test web application and Create test report	20

Reference

https://nsdcindia.org/sites/default/files/QP_SSC-Q4901_Test-Engineer-Software.pdf