

**PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
PANIPAT**

**Department of Computer Science & Engineering
LESSON PLAN**

Subject Name: - SVVT

Branch/Semester: - 8TH SEM/ CSE B

Subject Code: -PE-CS-D403A

Sr. No.	Lecture No.	Topics To Be Covered
1	L 1	Overview of Software Testing and purpose of testing
2	L 2	Basic terminologies related to testing
3	L 3	Selection of good test cases and Testing Lifecycle
4	L 4	Principles and Limitations of Testing
5	L 5	Software Verification and Validation Difference, Proof of correctness
6	L 6	Functional Testing (Black box testing): Boundary value Analysis
7	L 7	Functional Testing (Black box testing) : Equivalence class testing
8	L 8	Decision table based testing
9	L 9	Cause effect graphing techniques
10	L 10	UNIT-2 Structural testing (Different coverage criterias)
11	L 11	Cyclomatic Complexity
12	L 12	Flow graph testing :Control flow graph
13	L 13	Data flow graph
14	L 14	Data flow graph testing
15	L 15	Mutation testing
16	L 16	Prioritization guidelines, Priority Category
17	L 17	Risk Analysis
18	L 18	Regression testing
19	L 19	Regression testing
20	L 20	Slice based testing

21	L 21	UNIT-3 Levels of testing :Unit testing
22	L 22	Integration testing
23	L 23	System testing
24	L 24	Acceptance testing (alpha, beta testing)
25	L 25	Acceptance testing : Gamma Testing
26	L 26	Object oriented testing: issues in object oriented testing
27	L 27	Class testing, GUI Testing
28	L 28	Object oriented integration testing
29	L 29	Object oriented system testing
30	L 30	Debugging and domain testing
31	L 31	UNIT-4 Need of automation
32	L 32	Static testing and tools
33	L 33	Dynamic testing and its tools
34	L 34	Modern tools of testing
35	L35	Characteristics of Modern tools of testing