LESSON PLAN-SVVT

Name of Faculty : Mr. Ravi Sachdeva

Discipline : Computer Science Engg.

Semester : B.Tech 8th Semester

Subject : Software Verification, Validation & Testing

Lesson plan duration : 15 Weeks

Work load (Lecture) Per Week (in hours): Lectures-03

Week	Theory	
	Lecture day	Topic (Including assignment and test)
1	1	Introduction
	2	What is software testing and why it is so hard
	3	Error, Fault, Failure
2	4	Incident, Test Cases
	5	Testing Process, Limitations of Testing, No absolute proof of Correctness,
	6	Overview of Graph Theory & Discrete Mathematics.
3	7	Boundary Value Analysis
	8	Equivalence Class Testing
	9	Decision Table Based Testing
4	10	Cause Effect Graphing Technique
	11	Class Test
	12	Structural Testing :Path testing
5	13	DD-Paths
	14	Cyclomatic Complexity
	15	Graph Metrics, Data Flow Testing
6	16	Mutation testing
	17	Reducing the number of test cases
	18	Prioritization guidelines
7	19	Priority category, Scheme
	20	Risk Analysis
	21	Regression Testing
8	22	Slice based testing
	23	Class Test
	24	Testing Activities: Unit Testing
9	25	Levels of Testing
	26	Integration Testing
	27	System Testing
10	28	Debugging

	29	Domain Testing
	30	Class test
11	31	Object Oriented Testing: Issues in Object Oriented Testing
	32	Class Testing
	33	GUI Testing
12	34	Object Oriented Integration
	35	System Testing.
	36	Class Test
13	37	Testing Tools
	38	Static Testing Tools
	39	Static Testing Tools
14	40	Dynamic Testing Tools
	41	Dynamic Testing Tools
	42	Dynamic Testing Tools
15	43	Characteristics of Modern Tools
	44	Characteristics of Modern Tools
	45	Class Test