LESSON PLAN

Name of the Faculty	:	RAVINDER KUMAR MEHRA
Discipline	:	Computer Science & Engineering
Semester	:	8 TH
Subject	:	SOFTWARE TESTING
Lesson Plan Duration	:	15 weeks (from JAN 2021 to MAY 2021)

**Work Load(Lecture/Practical) per week (in hours): Lectures:4

Week	Theory		
	Lecture Day	Topic(including assignment/test)	
1 st	1 st	Overview of Software Evolutiom	
	2 nd	What is software testing and why it is so hard?,	
	3 rd	SDLC, Testing Process	
2 nd	4 th	Error, Fault, Failure	
	5 th	Difference between Verification & Validation	
	6 th	Test Cases, Testing Process	
3 rd	7 th	Limitations of Testing	
	8 th	Functional Testing	
	9 th	Boundary Value Analysis, Equivalence Class Testing	
4 th	10 th	Decision Table Based Testing, Cause Effect Graphing Technique.	
	11 th	Sessional Exam First	
	12 th	Structural Testing	
5 th	13 th	Path Testing	
	14 th	DD-Paths,Cyclomatic Complexity	
	15 th	Graph Metrics	
6 th	16 th	SOT 1	
	17 th	Data Flow Testing, Mutation testing.	
	18 th	Reducing the number of test cases:	
7 th	19 th	Prioritization guidelines	
	20 th	Priority category, Scheme	
	21 st	Risk Analysis	
8 th	22 nd	Regression Testing	
	23 rd	Slice testing	
	24 th	Class Test	
9 th	25 th	Testing Activities	

	26 th	Unit Testing
	27 th	Levels of Testing
10 th	28 th	Sessional Exam Second
	29 th	Sessional Discussion
	30 th	Integration Testing
11 th	31 st	System Testing
	32 nd	Debugging
	33 th	Domain Testing
12 th	34 th	SOT 2
	35 th	Object Oriented Testing
	36 th	Issues in Object Oriented Testing
13 th	37 th	Revision
	38 th	Class Testing, GUI Testing
	39 th	Object Oriented Integration and System Testing.
14 th	40 th	Testing Web Applications : Web Testing
	41th	SOT 3
	42 nd	User Interface Testing, Usability Testing
15 th	43 rd	Security Testing, Performance Testing
	44 th	Database Testing, Post Deployment Testing
	45 th	Sessional 3