AMBALA COLLEGE OF ENGINEERING AND APPLIED RESERACH

DEPTT. OF COMPUTER SCIENCE & ENGINEERING

LECTURE PLAN- (CSE-412N)

NAME OF FACULTY: Dr. Poonam Rana
DESCIPLINE: B.Tech.- Computer Science & Engineering
SEMESTER: VIII
SUBJECT: SOFTWARE TESTING
LESSON PLAN
DURATION: 13 WEEKS (January- June 2020)
WORK LOAD PER WEEK: L:T:P- 4:0:0
(IN HOURS)

Week	Lecture No.	Theoy
		Topic (including assignment & Test)
1ST	1	Overview of software evolution
	2	SDLC
	3	Testing Process
	4	Terminologies in Testing: Error, Fault, Failure
2ND	5	Verification, Validation
	6	Difference between Verification and Validation
	7	What is software testing and why it is so hard
	8	Test Cases
3RD	9	Test Oracles
	10	Testing Process
	11	Limitations of Testing
	12	REVISION OF UNIT I
4TH	13	Functional Testing
	14	Boundary Value Analysis
	15	Equivalence Class Testing
	16	Decision Table Based Testing
5TH	17	Cause Effect Graphing Technique
	18	SESSIONAL TEST I
	19	Structural Testing
	20	Path testing
6TH	21	DD-Paths
	22	Cyclomatic Complexity
	23	Graph Metrics
	24	Data Flow Testing
7TH	25	Mutation testing
	26	REVISION OF UNIT II
	27	Reducing the number of test cases
	28	Prioritization guidelines

8TH	29	Priority category Scheme
	30	Risk Analysis
	31	Regression Testing
	32	Slice based testing
9TH	33	Testing Activities
	34	Unit Testing
	35	Levels of Testing
	36	Integration Testing
10TH	37	System Testing
	38	Debugging
	39	Domain Testing
	40	SESSIONAL TEST II
11TH	41	Object oriented Testing: Definition, Issues
	42	Class Testing
	43	Object Oriented Integration
	44	System Testing
12TH	45	What is Web testing?
	46	User interface Testing
	47	Usability Testing
	48	Security Testing
13TH	49	Performance Testing
	50	Database testing
	51	Post Deployment Testing
	52	SESSIONAL TEST III

(Teacher Signature with Date)