LESSON PLAN

Name of the Institute:		C. V. Raman Polytechnic					
Department:		Computer Science & Engineering					
Semester/Division/Branch: Subject Name with code: Total No. of Class (Required): Faculty Name:		5 th sem/CSE Software Engineering(TH-3) 60 Kshyamasagar Mahanta					
				Class No.	Brief description of	the Topic/Chapter to be taught	Remarks
				1	Introduction to Software Engineering		
				2	Program vs. Software product		
3	Emergence of Software Engineering						
4	Computer Systems Engineering						
5	Software Life Cycle Models						
6	Classical Water fall model						
7	Iterative Water fall model Prototyping modelEvolutionary model Spiral model		ter and territory of the spectrum of the spect				
8	Software Project Management						
9	Responsibility of Project Manager Project Planning						
10	Metrics for Project size estimation(LOC and FP)Project Estimation Techniques						
11	COCOMO Models, Basic, Intermediate and complete						
12	Organization and Team structureStaffing						
13	Risk Management Configuration Management						
14	Requirement Analysis and specification						

15	Requirements gathering and analysis	
16	Software Requirements SpecificationContents of SRS	
17	Characteristics of Good SRS	
18	Organization of SRS	
19	Techniques for representing complexing logic	
20	Software Design	
21	What is a Good S/W design	
22	Cohesion and coupling	
23	Neat arrangement	
24	S/W Design approaches	
25	Structured analysis	
26	Data Flow Diagrams	
27	Symbols used in DFD	
28	Designing DFD	
29	Developing DFD model of a system	
30	Shortcomings of DFD Structured design	
31	Principles of transformation of DFD to Structure	
32	Transform analysis and Transaction Analysis Design Review	
33	User Interface Design	
34	Characteristics of Good Interface	
35	Basic concepts of UID	
36	Types of User interfaces	
37	Components based GUI development	
38	Software Coding & Testing	
39	Coding Code Review	
40	Code walk through Code inspections and software Documentation	
41	Testing Unit testing Black Box Testing	

	ALC: N	
42	Equivalence class partitioning and boundary valueanalysis White Box Testing	and the second sec
43	Different White Box methodologies	
44	statement coverage branch coveragecondition coverage path coverage	
45	cyclomatic complexity	and the second se
46	data flow based testing	10.000
47	mutation testing	
48	Debugging approaches	and an and a second
49	Debugging guidelines	
50	Integration Testing	
51	Phased and incremental integration testing	
52	testing	
53	Performance Testing, Error seeding	
54	General issues associated with testing	
55	Software Reliability	
56	Software Reliability	
57	Different reliability metrics	an a final to
58	Reliability growth modeling	
59	Software quality	
60	Software Quality Management System	

Signature of the Faculty

Signature of the H.O.D