SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

SREE SAINATH NAGAR, TIRUPATI – 517 102

Department of Computer Science and Engineering

Lesson Plan cum Diary 2015'16

Name of the Subject : **SOFTWARE PROJECT MANAGEMENT -14MT10509**
Name of the faculty Member : **K.BHASKAR NAIK**
Class & Semester : **M.Tech-I-Semester(CS)** **SVEC14-REG**

S. No.	Topic	No. of periods required	Date(s) covered	No. of periods used	Book(s) followed	Topics for self study
UNIT – I: SOFTWARE EFFORTS ESTIMATION TECHNIQUES						
1	Conventional Software Management-1	1			T1	Measuring Software Size. source code and function code
2	Conventional Software Management-2	1			T1	
3	The waterfall model-1	1			T1	
4	The waterfall model-2	1			T1	
5	conventional software Management performance-1	1			T1	
6	conventional software Management performance-2	1			T1	
7	Evolution of Software Economics-1	1			T1	
8	Evolution of Software Economics-2	1			T1	
9	Software Economics-1	1			T1	
10	Software Economics-2	1			T1	
Total periods required:		**10**				
UNIT – II: IMPROVING SOFTWARE ECONOMICS						
11	Reducing Software product size	1			T1	Transitioning to an iterative process
12	improving software processes	1			T1	
13	Improving team effectiveness	1			T1	
14	improving automation	1			T1	
15	achieving required quality	1			T1	
16	peer inspections,	1			T1	
17	The old way and the new	1			T1	
18	The principles of conventional software Engineering,	1			T1	
19	principles of modern software management	1			T1	
20	principles of modern software management-2	1			T1	
Total periods required:		**10**				

UNIT –III: LIFE CYCLE PHASES						
21	Engineering and production stages	1			T1	Engineering set and managements set of artifacts
22	Engineering and production stages-2	1			T1	
23	Inception, Elaboration, construction phase-1	1			T1	
24	Inception, Elaboration, construction phase-2	1			T1	
25	transition phases	1			T1	
26	Artifacts of the process	1			T1	
27	Artifacts of the process-2	1			T1	
28	the artifact sets	1			T1	
29	Management artifacts	1			T1	
30	Engineering artifacts	1			T1	
	Total periods required:	**10**				
UNIT – IV: MODEL BASED SOFTWARE ARCHITECTURE						
31	A Management perspective	1			T1	Work breakdown structures
32	technical perspective	1			T1	
33	Work Flows of the process,	1			T1	
34	Software process workflows	1			T1	
35	Iteration workflows	1			T1	
36	Checkpoints of the process, Major milestones	1			T1	
37	Minor Milestones, Periodic status assessments.	1			T1	
38	Iterative Process Planning	1			T1	
39	Planning guidelines, cost and schedule estimating	1			T1	
40	Iteration planning process,	1			T1	
41	Pragmatic planning	1			T1	
	Total periods required:	**11**				
UNIT-V : PROJECT ORGANIZATIONS AND RESPONSIBILITIES						
42	Line-of-Business Organizations,	1			T1	Command center processing and display system Replacement CCPDS
43	Project Organizations	1			T1	
44	evolution of Organizations	1			T1	
45	Automation Building blocks	1			T1	
46	The Project Environment	1			T1	
47	The seven core Metrics,	1			T1	
48	Management indicators	1			T1	

49	quality indicators, life cycle expectations,	1			T1	
50	software Metrics	1			T1	
51	Metrics Automation	1			T1	
52	Tailoring the Process: Process Discriminates.	1			T1	
53	COCOMO Model	1			T1	
Total periods required:		**12**				
Grand total periods required:		**53**				

Text Books:

1. Walker Royce, "*Software Project Management,"* Seventeenth Edition, Pearson Education, New Delhi, 2012.

Reference Books:

1. Bob Hughes and Mike Cottrell, "*Software Project Management*," Fourth Edition, Tata McGraw-Hill, New Delhi, 2006.
2. JoelHenry,"*Software Project Management,*" First Edition ,Pearson Education, New Delhi,2008.
3. Pankaj Jalote," Software Project Management in practice," Seventh Edition, Pearson Education ,New Delhi, 2008.

Signature of the faculty Member **Signature of the HOD**