

# Bhoj Reddy Engineering College for Women: Hyderabad

## Department of Information Technology

Lesson plan of faculty member for the academic year 2020–21

Class: IV B Tech

Branch-Section: IT-A

Semester: I

Subject: Software Process and Project Management

Lectures per week: 3

Lecture Number	Topics to be covered	Date (s)
<b>UNIT – I</b>		
1	Software Process Maturity: Software Maturity Framework	01 September 2020
2	Process Maturity Levels	03 September 2020
3	Process Maturity Levels	04 September 2020
4	Principles of Software Process Change	08 September 2020
5	Software Process Assessment	10 September 2020
6	Process Reference Models	11 September 2020
7	Capability Maturity Model(CMM), CMMI	15 September 2020
8	PCMM	17 September 2020
9	TSP, PSP	18 September 2020
<b>UNIT – II</b>		
10	Software Project Management Renaissance: Conventional Software Management- Waterfall Model	22 September 2020
11	Conventional Software Management Performance	24 September 2020
12	Evolution of Software Economics-Software Economics	25 September 2020
13	Pragmatic Software Cost Estimation	29 September 2020
14	Improving Software Economics-Reducing Software Product Size, Improving Software Process	01 October 2020
15	Improving Team Effectiveness, Improving Automation Through Software Environments	06 October 2020
16	Peer Inspections	08 October 2020
17	The Old Way and The New Way	09 October 2020
18	Life Cycle Phases and Process Artifacts: Engineering and Production Phases, Inception Phase	13 October 2020
19	Elaboration Phase, Construction Phase, Transition Phase	15 October 2020
20	Artifact Set, Engineering Artifact	16 October 2020
21	Management Artifacts, Pragmatic Artifacts	27 October 2020
22	Model- Based Software Architecture	29 October 2020
<b>UNIT – III</b>		
23	Workflows and Checkpoints of a Process: Software Process Workflows, Iteration Workflows	10 November 2020

24	Major and Minor Milestones, Periodic Status Assessment	12 November 2020
25	Process Planning: Work Breakdown Structures	13 November 2020
26	Planning Guidelines	17 November 2020
27	Cost and Schedule Estimating Process	19 November 2020
28	Iteration Planning, Pragmatic Planning	20 November 2020
<b>UNIT-IV</b>		
29	Project Organization: Line of Business Organizations	24 November 2020
30	Project Organization	26 November 2020
31	Project Organization	27 November 2020
32	Evolution of Organizations	01 December 2020
33	Process Automation- Tools	03 December 2020
34	The Project environment	04 December 2020
35	Project Control and Process Instrumentation :Seven Core Metrics	08 December 2020
36	Management Indicators	10 December 2020
37	Quality Indicators	11 December 2020
38	Life Cycle Expectations	15 December 2020
39	Pragmatic Software Metrics, Metrics Automation	17 December 2020
<b>UNIT-V</b>		
40	CCPDS-R Case Study	18 December 2020
41	CCPDS-R Case Study	22 December 2020
42	Future Software Project Management Practices	24 December 2020
43	Modern Project Profiles	29 December 2020
44	Next Generation Software Economics, Modern Process Transitions	31 December 2020
45	Revision	01 January 2021

**Text books:**

1. Managing the Software Process, Watts S. Humphrey, Pearson Education.
2. Software Project Management, Walker Royce, Pearson Education.

Name and signature of the faculty: Vaddi Swarna Kamalam ----

Name and signature of Head of the Department: C Murugamani ----