

Bhoj Reddy Engineering College for Women:Hyderabad

Department of Information Technology

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

Class: III B Tech Branch-Section: IT- A

Semester: I

Subject: Software Engineering

Lectures per week:3

Lecture Number	Topics to be covered	Date (s)
UNIT-I Introduction to Software Engineering		
1	Evolving role of software, Changing Nature of Software	2 September 2020
2	Legacy Software, Software Myths	4 September 2020
3	Software Engineering-A layered technology	7 September 2020
4	Process frame work	9 September 2020
5	CMMI Levels	11 September 2020
6	Process Patterns, Process assessment	14 September 2020
7	Personal and team process models	16 September 2020
8	Process Models- Water fall model	18 September 2020
9	Prototype Model, The Unified process	21 September 2020
10	Evolutionary process models, Specialized process models	23 September 2020
UNIT-II Software Requirements		
11	Software Requirements	25 September 2020
12	Functional & non-Functional Requirements	28 September 2020
13	System requirements, User requirements	30 September 2020
14	Interface Specification	5 October 2020
15	Software requirements document	7 October 2020
16	Software requirements document-IEEE	9 October 2020
17	Requirements engineering process- Feasibility studies	12 October 2020
18	Requirements validation, Requirements Management	14 October 2020
19	System models, Behavioral models, Data models	16 October 2020
UNIT-III Design Engineering		
20	Design Concepts	26 October 2020
21	Design model, Pattern based software design	28 October 2020
22	Creating an architectural design: Software architecture	2 November 2020
23	Data design, Architectural style and patterns	4 November 2020
24	Mapping data flow into software architecture	6 November 2020
25	Modelling component -level design	9 November 2020
26	OCL, Designing conventional components	11 November 2020
27	Performing user interface design: Golden rules	18 November 2020
28	User interface analysis and design	19 November 2020
29	Interface analysis	21 November 2020
UNIT-IV Testing Strategies		
30	Strategic Approach for testing	23 November 2020
31	Testing Strategies	24 November 2020
32	Black —Box testing ,White—Box testing	25 November 2020
33	Validation Testing ,System Testing	27 November 2020
34	Art of Debugging	29 November 2020
35	Product Metrics	2 December 2020
36	Product Metrics: Software quality , Framework	4 December 2020
37	Metrics for analysis model	7 December 2020
38	Metrics for design model, Metrics for source code	9 December 2020

39	Metrics for Process and Products	10 December 2020
UNIT-V: Risk Management & Quality Management		
40	Risk Management	11 December 2020
41	Reactive vs Proactive Risk strategies	14 December 2020
42	Software risks	16 December 2020
43	Risk Refinement	18 December 2020
44	RMMM	21 December 2020
45	RMMM Plan	23 December 2020
46	Quality Management	27 December 2020
47	Quality concepts	29 December 2020
48	Revision	31 December 2020

TEXT BOOKS:

1. Software Engineering, A practitioner's Approach, Roger S Pressman, sixth edition. McGrawHill International Edition.
2. Software Engineering, Ian Sommerville, seventh edition, Pearson education.

Name and signature of the faculty: Mrs. D Navaneetha

Name and signature of Head of the Department: Mr. C Murugamani