VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN

[AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI]

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Code / Name :U15CS520/Software Engineering

Class (Year / Programme / Department / Section): I1I/BE/CSE/A&B

LESSON PLAN

Session No	Topic	Duration in Minutes	Teaching Aid	Book Reffered
UNIT -1(SOFTWARE PROCESS)				
1	Introduction	45	BB	R2
2	the evolving role of software	45	BB	R2
3	Software characteristics	45	BB	R2
4	SW applications.	45	BB	R2
5	Software Processes: Software process models	45	BB	R2
6	Waterfall model	45	BB	R2
7	the prototyping model	45	BB	R2
8	spiral model-	45	BB	R2
9	RAD and Incremental model	45	BB	R2
10	Project Management: Management activities	45	BB	R2
UNIT -2(SOFTWARE REQUIREMENTS)				
1	Software Requirements: Functional and non functional	45	BB	R2
2	User requirements	45	BB	R2
3	System requirements-the Software requirements docum	45	BB	R2
4	IEEE standard of SRS	45	BB	R2
5	Quality of good SRS	45	BB	R2
6	. Requirement Engineering Process	45	BB	R2
7	Feasibility study-	45	BB	R2
8	Requirements validation- Requirement management.	45	BB	R2
9	Requirements elicitation and analysis	45	BB	R2
UNIT -3 (ANALYSIS, DESIGN CONCEPTS AND PRINCIPLES)				
1	Systems Engineering	45	BB	R1
2	Analysis Concepts	45	BB	R1
3	Design Process And Concepts	45	BB	R1
4	Modular Design	45	BB	R1
5	Design Heuristic	45	BB	R1
6	architectural Design	45	BB	R1
7	Data Design	45	BB	R1
8	User Interface Design	45	BB	R3
9	Real Time Software Design	45	BB	R3
UNIT -4 (TESTING)				
1	Verification and Validation	45	BB	R1
2	Verification and Validation Planning	45	BB	R1
3	S/W inspection	45	BB	R1
4	static analysis	45	BB	R1
5	Test care design-	45	BB	R1
6	White Box testing	45	BB	R1
7	Black box testing	45	BB	R1

8	System testing- Reliability.	45	BB	R1
UNIT -5 (MANAGING & QUALITY CONTROL)				
1	Management Estimation techniques	45	BB	R1
2	Algorithmic cost modeling	45	BB	R1
3	Project duration and staffing	45	BB	R1
4	Quality Management: Quality assurance and standards	45	BB	R1
5	Quality planning	45	BB	R1
6	Quality control. Software Change	45	BB	R1
7	Program Evolution Dynamic	45	BB	R1