Name of the Faculty : Mrs. Meena Dagar
Department : Computer Engineering
Semester : 5th
Subject : Software Engineering
Lesson Plan Duration : 16 weeks

****Work load (Lecture / Practical) per week (in hours): Lectures-03, practical -NIL**

Week	Theory	
	Lecture day	**Topic (Including assignment / test)**
1st	1st	Introduction to Software Engineering, Introduction, Programmes v/s Software Products
	2nd	Emergence of Software Engineering- Early Computer Programming, High- level
	3rd	Control flow based Design
2nd	1st	Data Structure Oriented Design
	2nd	Object Oriented Design
	3rd	Revision of unit I
3rd	1st	Software Life Cycle Models
	2nd	Requirement of Life Cycle Model
	3rd	Classic Waterfall Model
4th	1st	Advantages and Limitations of Classical model
	2nd	Prototyping Model
	3rd	Evolutionary Model
5th	1st	Spiral Model
	2nd	Comparison of different Life Cycle Models
	3rd	Revision of Unit II
6th	1st	Software Planning: Responsibilities of Software Project Manager
	2nd	Metrics for Project Size Estimation- LOC(Lines of Code)
	3rd	Function Point Metric
7th	1st	Project estimation Techniques: Need and Types
	2nd	COCOMO Model and its variants.
	3rd	Halstead's Software Science
8th	1st	Revision of Unit III
	2nd	Class Test of Unit I, II, III
	3rd	Requirement Analysis and Specification
9th	1st	Requirement gathering and Analysis
	2nd	Software Requirement Specifications(SRS)
	3rd	Characteristics of good SRS
10th	1st	Formal Specification Technique
	2nd	Revision of Unit IV
	3rd	Software Design and Implementation
11th	1st	Characteristics and features of good Software
	2nd	Design Cohesion and Coupling,
	3rd	Software design Approach- Function Oriented Design
12th	1st	Software design Approach- Object Oriented Design
	2nd	Structured Coding Techniques
	3rd	Coding Styles, documentation
13th	1st	Software Testing: Concept of Testing
	2nd	Verification v/s Validations
	3rd	Types of testing : Unit Testing
14th	1st	Black Box Testing, White Box Testing
	2nd	Integration testing
	3rd	System testing
15th	1st	Software Quality and Maintenance
	2nd	Revision
	3rd	Revision

16th	1st	Introduction to Capability Maturity Model
	2nd	ISO9000 and Six Sigma, Configuration Management
	3rd	v