Name of the Faculty	: GOBIND KUMAR
Department	: Computer Engineering
Semester	: 5 th
Subject	: Software Engineering
Lesson Plan Duration	: 15 weeks

Theory		
Week	Lecture day	Topic (Including assignment / test)
1st	1^{st}	Introduction to Software Engineering, Introduction, Programmes v/s Software Products
	2^{nd}	Emergence of Software Engineering- Early Computer Programming, High- level
	3 rd	Control flow based Design
2nd	4^{th}	Data Structure Oriented Design
	5^{th}	Object Oriented Design
	6 th	Revision of unit I
3rd	7^{th}	Software Life Cycle Models
	8^{th}	Requirement of Life Cycle Model
	9 th	Classic Waterfall Model
4th	10^{th}	Advantages and Limitations of Classical model
	11^{th}	Prototyping Model
	12^{th}	Evolutionary Model
5th	13 th	Spiral Model
	14^{th}	Comparison of different Life Cycle Models
	15^{th}	Revision of Unit II
6th	16^{th}	Software Planning: Responsibilities of Software Project Manager
	17^{th}	Metrics for Project Size Estimation- LOC(Lines of Code)
	18^{th}	Function Point Metric
7th	19 th	Project estimation Techniques: Need and Types
	20^{th}	COCOMO Model and its variants.
	21 st	Halstead's Software Science
8th	22 nd	Revision of Unit III
	23 rd	Class Test of Unit I, II, III
	24 th	Requirement Analysis and Specification
9th	25 th	Requirement gathering and Analysis
	26 th	Software Requirement Specifications(SRS)
	27 th	Characteristics of good SRS
10th	28 th	Formal Specification Technique
	29 th	Revision of Unit IV
	30th	Software Design and Implementation
11th	31 st	Characteristics and features of good Software
	32 nd	Design Cohesion and Coupling,
	33 rd	Software design Approach- Function Oriented Design
12th	34 th	Software design Approach- Object Oriented Design
	35 th	Structured Coding Techniques
10.1	36 th	Coding Styles, documentation
13th	3/**	Software Testing: Concept of Testing
	38 th	Verification v/s Validations
1 4 1	39 th	Types of testing : Unit Testing
14th	40	Black Box Testing, while Box Testing
	41 st	
1 - 1	42 nd	System testing
15th	43 rd	Software Quality and Maintenance
	44 4 <i>c</i> -th	ISO9000 and Six Sigma Configuration Management
	45	1507000 and Div Digina, Configuration Management