`TEACHING PLAN FOR THEORY

Subject: Software Engineering		Class: FYMCA	Branch: Engg	Year 2016-2017
Lecture No	**Scheduled Date**	**Topics to be covered on the scheduled date**	**Dates On which Actually covered**	**Reasons for deviation(if any)**
1	02/01/17	<u>UNIT – I</u>. **Introduction of Software Engineering**		
2	03/01/17	Software & software engineering, The importance of software, software-software myths		
3	04/01/17	software engineering paradigms, generic view of software Engg,		
4	05/01/17	software metrics, measures and metrics, estimation		
5	06/01/17	risk analysis, scheduling, size oriented metrics		
6	09/01/17	Function oriented metrics, metrics of software quality.		
7	10/01/17	**Unit – II : Requirements Engineering**		
8	11/01/17	Requirements Engineering Tasks		
9	12/01/17	Initiating the process		
10	13/01/17	Eliciting Requirements , Developing Use-Cases		
11	16/01/17	Building The Analysis Model: Requirements Analysis		
12	18/01/17	Data Modeling Concepts, Object-Oriented Analysis		
13	19/01/17	Scenario-Based Analysis, Flow-Oriented Modeling		
14	20/01/17	Class-Based Modeling, Creating a Behavioral Model		
15	23/01/17	**Unit – III : Software Project Planning**		
16	24/01/17	Software project estimation and planning		
17	25/01/17	decomposition techniques, LOC and FP estimation		

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18	27/01/17	effect estimation, risk analysis, identification		
19	30/01/17	projection, assessment, management and monitoring		
20	31/01/17	software reengineering, requirement analysis, tasks		
21	01/02/17	analyst, software prototyping		
22	02/02/17	specification principles,		
23	03/02/17	representation and the software requirements specification		
24	06/02/17	**Unit – IV : Software Design Engineering**		
25	08/02/17	Design Process and design quality, Design Concepts		
26	09/02/17	The Design Model		
27	10/02/17	Introduction to Pattern-Based Software Design		
28	16/02/17	**Architectural Design:** Software Architecture, Data Design		
29	17/02/17	and Architectural Design		
30	20/02/17	User Interface Design: Rules		
31	21/02/17	User Interface Analysis and Steps in Interface Design		
32	23/02/17	Design Evaluation		
33	24/02/17	**Unit – V : Software Quality Concepts**		

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34	27/02/17	Software quality assurance, software quality factors quality assurance		
35	28/02/17	quality metrics, Halstead's S/W science		
36	01/03/17	software testing techniques		
37	02/03/17	S/W testing fundamentals; White box testing,		
38	03/03/17	black box-testing		
39	06/03/17	validation testing		
40	07/03/17	system testing		
41	15/03/17	debugging software maintenance maintainability		
42	16/03/17	maintenance tasks		
43	17/03/17	reverse engineering and re-engineering.		
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