Zagdu Singh Charitable Trust's (Regd.)
THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai*)
(Accredited Programmes by National Board of Accreditation, New Delhi**)
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ISO 9001 : 2008 Certified

*Permanent Affiliated UG Programmes : • Computer Engineering • Electronics & Telecommunication Engineering • Information Technology (w.e.f.: A.Y. 2015-16 onwards)
**1st time Accredited UG Programmes : • Computer Engineering • Electronics & Telecommunication Engineering • Information Technology
**2nd time Accredited UG Programmes : • Computer Engineering • Electronics & Telecommunication Engineering • Information Technology • Electronics Engineering (3 years w.e.f.: 01-07-2016)

TCET/FRM/IP-02/09 **Revision: A**

Semester Plan (Theory)

Semester: III **Course: IT**

Subject: Advances in Software Engineering **Class: ME IT**

Sr. No	Module No.	Lesson No	Topics Planned (Technology to be used)	Teaching Aids Required	Planned /Completion Date	Resource Book Reference	Remarks
1	Module 1	L1.1	Nature of Software : A Generic Process Model	Power point presentation, Chalk & Board	8/8/2017 8/8/2017	TX1	
2	Module 1	L1.2	The Unified Process ,Agility Principles ,XP Programming, Scru m,	Power point presentation, Chalk & Board	8/8/2017 8/8/2017	TX1	
3	Module 1	L2.1	The Design Process, Concepts of Design Principles, Object-Oriented Design Concepts	Power point presentation, Chalk & Board	22/8/2017 22/8/2017	TX1	
4	Module 1	L2.2	Architectural Styles, Arc hitectural Design, Assessing Alternative Architectural Designs	Power point presentation, Chalk & Board	22/8/17 22/8/2017	TX1	
5	Module 1	L4.1	Class-Based Components, Conducting Component Level Design	Power point presentation, Chalk & Board	24/8/2017	TX1	
			User Interface		24/8/2017		

6	Module 1	L4.2	Design, The Golden Rules, User Interface Analysis and Design,	Power point presentation, Chalk & Board	24/8/2017	TX1	
7	Module 2	L5.1	Interface Analysis Interface Design Steps, WebApp Interface Design	Power point presentation, Chalk & Board	6/9/2017 6/9/2017	TX1	
8	Module 2	L5.2	Design Evaluation, Design Document	Power point presentation, Chalk & Board	6/9/2017 6/9/2017	TX2	
9	Module 2	L6.1	SAAM Method, ATAM Method, HASARD Method.	Power point presentation, Chalk & Board	**12/9/2017**	TX2	
10	Module 2	L6.2	Object-Oriented Met rics,	Power point presentation, Chalk & Board	12/9/2017	TX2	
11	Module 2	L7.1	Integrating Metrics within the Software Process,	Power point presentation, Chalk & Board	19/9/17	TX2	
12	Module 2	L7.2	Software Project Estimation, Decomposition,	Chalk & Board, Animation	19/9/17	Tx1	
13	Module 3	L-6.1	Empirical Es timation Models,	Chalk & Board, Animation	26/9/17	TX1	
14	Module 3	L-6.2	The COCOMO II Model	Power point presentation, Chalk & Board	26/9/17	TX1	

15	Module 3	L-7.1	Project scheduling: Basic Concepts	Power point presentation, Chalk & Board	3/10/2017	TX1	
16	Module 3	L-7.2	Defining a Task Set for the Software Project	Power point presentation, Chalk & Board	3/10/2017	TX1	
17	Module 3	L-8.1	Scheduling : Tracking the Schedule	Power point presentation, Chalk & Board	10/10/2017	TX1	
18	Module 3	L-8.2	Earned Value Analysis Risk management:	Power point presentation, Chalk & Board	10/10/2017	TX1	
19	Module 5	L-9.1	Reactive versus Proactive Risk Strategies, Risk Identification,	Power point presentation, Chalk & Board	17/10/17	TX1	
20	Module 3	L-9.2	Assessing Overall Project Risk,	Chalk & Board, Animation	17/10/17	TX1	
21	Module 3		Risk Projection, Developing a Risk Table,	Power point presentation, Chalk & Board	24/10/2017	TX1	
22	Module 3		Assessing Risk, Project Plan		24/10/2017	TX1	
Remark: Course:		Syllabus Coverage:		Practice Session:			
No. of (lectures planned)/(lecture taken): 22							

Text Books:

1. Roger S Pressman “Software Engineering : A Practitioner’s Approach “ 7th Edition Mcgraw-Hill ISBN:0073375977
2. Ian Sommerville “ Software Engineering” 9th edition Pearson Education SBN-13: 978-0- 13-703515-1, ISBN-10: 0-13-703515-2
3. Hong Zhu “Software Design Methodology”, Elsevier ISBN: 978-81-312-0356-9

Reference Books:

1. Pankaj Jalote “ An Integrated Approach to Software Engineering” 3rd Edition Narosa Publication ISBN: 81-7319-702-4
2. Rajib Mall “ Fundamentals of Software Engineering” 3rd edition PHI.
3. Pfleejer “ Software Engineering- Theory and Practice” 4th edition
4. Martin Fowler “Distilled UML” 3rd edition Stephen H. Kan, "Metrics and Models in Software Quality Engineering", 2nd Edition, Pearson, 2003

Digital Reference:

3.1 www.nptel.ac.in

3.2 www.tutorialpoint.com

SD/-	SD/-	SD/-
Name & Signature of Faculty	Signature of HOD	Signature of Principal /Dean (Academics)
Date:	Date:	Date: