

TEACHING PLAN FOR THEORY

Subject: Object Oriented Analysis & Design		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> An overview - Object basics. Benefits of OO Methodology.		
2	03/01/17	Two views of Software Development: SSAD, OOAD,		
3	04/01/17	Overview of Prominent OO Methodologies: The Rumbaugh OMT,		
4	05/01/17	The Booch methodology.		
5	06/01/17	Jacobson's OOSE methodologies,		
6	09/01/17	Rational Unified Process,		
7	10/01/17	4+1 View architecture,		
8	11/01/17	Architectural approaches		
9	12/01/17	<u>UNIT 2</u> -Introduction to UML & History		
10	13/01/17	UML 2.0 New Features		
11	17/01/17	UML Meta-Model		
12	18/01/17	Extensibility mechanisms like stereotypes, Tagged Values		
13	19/01/17	constraints and profiles,OCL		
14	20/01/17	Overview of all diagrams in UML 2.0.		
15	23/01/17	Use case diagram, Requirement Capture with Use case. Building blocks of Use Case		
16	24/01/17	diagram - actors, use case, guidelines for use case models.		
17	25/01/17	Relationships between use cases - extend, include, and generalize.		

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18	26/01/17	UNIT III- Class diagrams: Classes, values and attributes,		
19	27/01/17	Class diagram -- operations and methods		
20	30/01/17	responsibilities for classes		
21	31/01/17	abstract classes, access specification (visibility of attributes and operations).		
22	01/02/17	Relationships among classes: Associations, Dependencies		
23	02/02/17	Generalizations, Aggregation.		
24	03/02/17	Adornments on Association: association names, association classes,		
25	07/02/17	qualified association, n-ary associations, ternary and reflexive association.		
26	08/02/17	Dependency relationships among classes, notations.		
27	09/02/17	Object diagrams notations and modeling, relations among objects (links).		
28	10/02/17	UNIT IV - Interaction diagrams:		
29	16/02/17	Sequence diagrams		
30	17/02/17	Interaction occurrences and combines fragments.		
31	20/02/17	Communication diagrams,		
32	21/02/17	Interaction Overview diagrams including interactions		
33	23/02/17	Signals ,exceptions		

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34	24/02/17	regions, partitions.		
35	27/02/17	<u>UNIT V</u> - Activity diagrams: Activities, sub activities, signals		
36	28/02/17	pins, exceptions, partitions, fork,join, regions		
37	01/03/17	State Machine diagrams: States, encapsulation of states		
38	02/03/17	transitions, submachine, state generalization,		
39	03/03/17	Timing diagrams.		
40	06/03/17	Modeling Architecture in UML: Package diagrams,		
41	07/03/17	Component diagrams,		
42	15/03/17	Deployment diagrams.		
43	16/03/17	Applications of UML in embedded systems		
44	17/03/17	Web applications, commercial applications		
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LAB EXPERIMENT LIST

Subject: UML Laboratory		Class: FYMCA		Branch: Engg		Year: 2016-2017	
Sr. No	Name of Experiment					Software/ Hardware/ Equipments Required	
1	To draw UML diagrams for Library Management System. Assume suitable data.					Altova UModel	
2	To draw UML diagrams for Online Transaction Management System. Assume suitable data.					Altova UModel	
3	To draw UML diagrams for Online Reservation System (railway, airlines, e-booking etc.). Assume suitable data.					Altova UModel	
4	To draw UML diagrams for Event Management System (arranging seminar /workshop /conference sports/ cultural / annual social gathering etc). Assume suitable data.					Altova UModel	
5	To draw UML diagrams for Financial (banking) Management System (e-banking). Assume suitable data.					Altova UModel	