

**Bhoj Reddy Engineering College for Women: Hyderabad**

Department of Information Technology

Lesson plan of faculty member for the academic year 2016–17

Class: III B Tech

Branch-Section: IT-B

Semester: II

Subject: Object Oriented Analysis and Design

Lectures per week: 4

<b>Lecture Number</b>	<b>Topics to be covered</b>	<b>Date(s)</b>
<b>UNIT – I: Introduction to UML</b>		
1	Introduction to UML	10 December 2016
2	Importance of Modeling	14 December 2016
3	Principles of Modeling	15 December 2016
4	Object Oriented Modeling	17 December 2016
5	An Overview of UML	19 December 2016
6	Conceptual Model of the UML	21 December 2016
7	Architecture of UML	22 December 2016
8	Software Development Life Cycle	24 December 2016
<b>UNIT – II: Basic Structural Modeling, Advanced Structural Modeling</b>		
9	Basic Structural Modeling	28 December 2016
10	Classes – Common Modeling Techniques	29 December 2016
11	Relationships – Common Modeling Techniques	31 December 2016
12	Common Mechanisms	02 January 2017
13	Diagrams – Common Modeling Techniques	04 January 2017
14	Advanced Structural Modeling, Advanced Classes	05 January 2017
15	Advanced Relationships, Interfaces	07 January 2017
16	Types and Roles, Packages	09 January 2017
17	Class & Object Diagrams	11 January 2017
18	Modeling techniques for Class	12 January 2017
19	Modeling techniques for Object Diagrams	14 January 2017
20	Forward and reverse engineering for class	16 January 2017
21	Forward and reverse engineering for object	18 January 2017
22	Example on Class and Object diagrams	19 January 2017
<b>UNIT – III: Basic Behavioral Modeling</b>		
23	Basic Behavioral Modeling concepts	21 January 2017
24	Interactions – Terms and Concepts	23 January 2017
25	Interaction – common modeling techniques	25 January 2017
26	Interaction diagrams	20 February 2017
27	Model flow control by time ordering	22 February 2017
28	Model flow control by organization	23 February 2017
29	Terms and concepts of interaction diagrams	25 February 2017
30	Basic Behavioral Modeling –II	27 February 2017
31	Use Cases – Terms and Concepts	01 March 2017
32	Use Case Diagrams – Terms and Concepts	02 March 2017
33	Use Case Diagrams – Common Modeling Techniques	04 March 2017
34	Activity Diagrams – Terms and Concepts	06 March 2017
35	Activity Diagrams- Common Modeling Techniques	08 March 2017

<b>UNIT – IV: Advanced Behavioral Modeling</b>		
36	Advanced Behavioral Modeling	09 March 2017
37	Events	11 March 2017
38	Signals	13 March 2017
39	State Machines, Processes and Threads	15 March 2017
40	Time and Space, State Chart Diagrams	16 March 2017
41	Modeling the lifetime and Multiple Flow Controls	18 March 2017
42	Architectural Modeling	20 March 2017
43	Components,Deployment	22 March 2017
44	Modeling Processors and Devices	23 March 2017
45	Component Diagrams	25 March 2017
46	Modeling Source Code,Executable Release	27 March 2017
47	Deployment Diagrams	30 March 2017
<b>UNIT – V: Case Study</b>		
48	Unified Library Application	01 April 2017
49	Patterns,Frameworks	03 April 2017
50	Unified ATM System	06 April 2017
51	Use Case,Class Diagrams	08 April 2017
52	Sequence,Collaboration Diagrams	10 April 2017
53	State Diagram, Activity Diagrams	12 April 2017
54	Component Diagram, Deployment Diagram	13 April 2017

**Text books:**

1. Object Oriented Analysis and Design by Grady Booch, Ivar Jacobson and James Rumbaugh
2. Object Oriented Analysis and Design by Hans-Erik Eriksson, Magnus Penker

Name and signature of the faculty: Swarna Kamalam V ----

Name and signature of Head of the Department: Sandeep Kumar K ----