Bhoj Reddy Engineering College for Women: Hyderabad
Department of Information Technology

Lesson plan of faculty member for the academic year 2019–20

Class: III B Tech Branch-Section: IT-A Semester: II

Subject: Object Oriented Analysis and Design Lectures per week: 3

Lecture Number	Topics to be covered	Date (s)
UNIT – I: Introduction to UML		
1	Introduction to UML	16 December 2019
2	Importance of Modeling	17 December 2019
3	Principles of Modeling	19 December 2019
4	Object Oriented Modeling	23 December 2019
5	An Overview of UML	24 December 2019
6	Conceptual Model of the UML	30 December 2019
7	Architecture of UML, Software Development Life Cycle	31 December 2019
UNIT-II: **Basic Structural Modelling**		
8	Basic Structural Modeling	2 January 2020
9	Classes – Common Modeling Techniques	6 January 2020
10	Relationships – Common Modeling Techniques	7 January 2020
11	Common Mechanisms	9 January 2020
12	Diagrams – Common Modeling Techniques	13 January 2020
13	Advanced Structural Modeling, Advanced Classes	16 January 2020
14	Advanced Relationships, Interfaces	20 January 2020
15	Types and Roles, Packages	21 January 2020
16	Class & Object Diagrams	23 January 2020
17	Modeling techniques for Class, Object Diagrams	27 January 2020
18	Forward and reverse engineering	28 January 2020
19	Revision	30 January 2020
UNIT-III: **Basic Behavioral Modelling I and II**		
20	Interactions – Terms and Concepts	3 February 2020
21	Interaction – common modeling techniques	4 February 2020
22	Interaction diagrams	6 February 2020
23	Terms and concepts of interaction diagrams	13 February 2020
24	Modeling Techniques	17 February 2020
25	Use Cases – Terms and Concepts	18 February 2020
26	Use Case Diagrams	20 February 2020
27	Activity Diagrams	24 February 2020
28	Activity Diagrams	25 February 2020
29	Revision	27 February 2020
UNIT-IV: **Advanced Behavioral Modelling**		
30	Events and Signals	2 March 2020
31	State Machines, Processes and Threads	3 March 2020
32	Time and Space, State Chart Diagrams	5 March 2020
33	Modeling the lifetime and Multiple Flow Controls	10 March 2020
34	Architectural Modeling	12 March 2020
35	Components, Deployment	16 March 2020
36	Component Diagrams	17 March 2020
37	Modeling Source Code, Executable Release	19 March 2020
38	Deployment Diagrams	23 March 2020
UNIT-V: **Library Application**		
39	Patterns, Frameworks	24 March 2020
40	Unified Library Application	26 March 2020

41	Unified Library System	30 March 2020
42	Unified ATM System	31 March 2020
43	Revision	6 April 2020
44	Revision	7 April 2020

Text books:

1. The Unified Modelling Language User Guide by Grady Booch, Ivar Jacobson and James Rumbaugh
2. UML 2 Toolkit by Hans-Erik Eriksson, Magnus Penker, Brian Lyons, David Fado

Name and signature of the faculty: M Sandhya Rani

Name and signature of Head of the Department: M Vinod