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

41	Revision	4 April 2020
42	Revision	6 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