LESSON PLAN

Subject: OOAD UML   **Subject Code: MCA-20-15**

Semester: 2nd

S. NO	Topic	No. of Lectures	CO Covered	Teaching Methodology
1	Introduction to UML and Principles of Modeling	1	CO1	PPT
2	Abstraction and Encapsulation	1		PPT
3	Modularity and Hierarchy	1		PPT
4	Concurrency introduction	1		PPT
5	Persistence of Object	1		PPT
6	Purpose of Modeling	1		PPT
7	UML things: Structural ,Behavioral, Grouping and Annotational Relationship	1		PPT
8	UML -Dependency, Association, Generalization, Realization	1		PPT
9	UML Diagram, Class Modelling	1		PPT
10	Mechanism in UML -Specification, Adornment, common division	1		PPT
11	Extensibility Mechanism-Stereotypes, tagged value, constraints, UML Profiles and Views	1		PPT
12	Introduction to Object ,Class ,Association, Generalization & Inheritance	1	CO2	PPT
13	Association and End Scope, Visibility and Multiplicity	1		PPT
14	Ordering, Bags & Sequences, Qualified Associations	1		PPT
15	Advanced Class Modeling:Association Attributes, Association Classes, Propagation of Operations	1		PPT
16	Abstract Classes, Metadata and Reification, Constraints on Classes and Associations	1		WHITE BOARD
17	Derived Data in Class Modeling, Using Packages for Organization	1		PPT
18	Key Elements of Class Diagrams, Constructing Class Diagrams (Examples & Practices)	1		PPT
19	State Modeling : Events, States, Transitions, and Conditions	1		PPT
20	Activities and Signals in State Diagrams	1		PPT
21	Elements and Construction of State Diagrams	1		WHITE BOARD
22	Introduction to Use Case Modeling and Relationships	1	CO3	PPT
23	Constructing Use Case Diagrams	1		PPT
24	Introduction to Interaction Modeling	1		PPT
25	Elements of Sequence Diagrams, Constructing Sequence and Communication Diagrams	1		PPT
26	Introduction to Activity Diagrams	1		PPT
27	Elements of Activity Diagrams & Constructing Activity Diagrams	1		WHITE BOARD
28	System Development & Analysis, Domain Class Model	1	CO4	PPT
29	Domain State Model, Application interaction model	1		PPT
30	Application interaction model, application class model, application state model	1		PPT
31	Adding operations System Design: estimating performance, make are use plan	1		WHITE BOARD
32	Organize the system into subsystem, identifying concurrency, allocating subsystems to processors and tasks, management of data stores	1		WHITE BOARD
33	Handling global resources, choosing software control strategies	1		PPT
34	Handling boundary conditions, setting trade-off priorities, selecting an architect style	1		PPT
35	Class Design: bridging gap, realize use cases with operations, designing algorithms, design optimization	1		PPT

| 36 | Adjustment of inheritance, organize classes & associations | 1 | | PPT |