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| Sl. No | Date | Name of the Experiment | Page No. | Marks Obtained | Signature |
| 1 | 15/11/2022 | Identifying the Requirements from Problem Statements Requirements | Characteristics of Requirements | Categorization of Requirements | Functional Requirements | Identifying Functional Requirements. |  |  |  |
| 2 | 22/11/2022 | Modelling UML Use Case Diagrams and Capturing Use Case Scenarios Use case diagrams | Actor | Use Case | Subject | Graphical Representation | Association between Actors and Use Cases | Use Case Relationships | Include Relationship | Extend Relationship | Generalization Relationship | Identifying Actors | Identifying Use cases | Guidelines for drawing Use Case diagrams. |  |  |  |
| 3 | 06/12/2022 | E-R Modelling from the Problem Statements Entity Relationship Model | Entity Set and Relationship Set | Attributes of Entity | Keys | Weak Entity | Entity Generalization and Specialization | Mapping Cardinalities | ER Diagram | Graphical Notations for ER Diagram | Importance of ER modelling. |  |  |  |
| 4 |  | Design a relational database for an application involving at-least 5 tables and build GUI using Java-Swing/Web/any other… to perform functional operations of the application. |  |  |  |
| 5 | 27/12/2022 | State chart and Activity Modelling State chart Diagrams | Building Blocks of a State chart Diagram | State | Transition | Action | Guidelines for drawing State chart Diagrams | Activity Diagrams | Components of an Activity Diagram | Activity | Flow | Decision | Merge | Fork | Join | Note | Partition | A Simple Example | Guidelines for drawing an Activity Diagram. |  |  |  |
| 6 | 27/12/2022 | Modelling UML Class Diagrams and Sequence diagrams Structural and Behavioural aspects | Class diagram | Elements in class diagram | Class | Relationships | Sequence diagram | Elements in sequence diagram | Object | Life-line bar | Messages. |  |  |  |
| 7 | 03/01/2023 | Modelling Data Flow Diagrams Data Flow Diagram | Graphical notations for Data Flow Diagram | Explanation of Symbols used in DFD | Context diagram and levelling DFD |  |  |  |
| 8 | 03/01/2023 | 8 Designing Test Suites Software Testing | Standards for Software Test Documentation | Testing Frameworks | Need for Software Testing | Test Cases and Test Suite | Types of Software Testing | Unit Testing | Integration Testing | System Testing | Example | Some Remarks. |  |  |  |