

## **DEPARTMENT OF INFORMATION TECHNOLOGY**

**Name of the Lab : OBJECT ORIENTED ANALYSIS AND DESIGN LABORATORY**

**CS8582 (EVEN Semester)**

**Regulations: R17**

### **List of experiments recommended as per Anna University**

Draw standard UML diagrams using an UML modeling tool for a given case study and map design to code and implement a 3 layered architecture. Test the developed code and validate whether the SRS is satisfied.

1. Identify a software system that needs to be developed.
2. Document the Software Requirements Specification (SRS) for the identified system.
3. Identify use cases and develop the Use Case model.
4. Identify the conceptual classes and develop a Domain Model and also derive a Class Diagram from that.
5. Using the identified scenarios, find the interaction between objects and represent them using UML Sequence and Collaboration Diagrams
6. Draw relevant State Chart and Activity Diagrams for the same system.
7. Implement the system as per the detailed design
8. Test the software system for all the scenarios identified as per the usecase diagram
9. Improve the reusability and maintainability of the software system by applying appropriate design patterns.
10. Implement the modified system and test it for various scenarios

### **SUGGESTED DOMAINS FOR MINI-PROJECT:**

1. Passport automation system.
2. Book bank
3. Exam registration
4. Stock maintenance system.
5. Online course reservation system
6. Airline/Railway reservation system
7. Software personnel management system
8. Credit card processing
9. E-book management system.
10. Recruitment System
11. Foreign trading system
12. Conference management system
13. BPO management system
14. Library management system
15. Student information system

### **List of experiments beyond the Anna University**

1. Hotel Management system
2. Online Quiz competition



Estd - 2001