

SOFTWARE ENGINEERING LAB

Paper code: ETCS-353

List of Experiments:

1. Introduction to ER diagram.
2. Draw any two ER diagrams from the following systems:
 - a) Banking Enterprise
 - b) Hotel Management System
 - c) Hospital Management System
 - d) Library Management System
 - e) Airline Reservation System
3. Introduction to Data Flow Diagrams.
4. Draw any two Data Flow Diagram (up to level-2) from the systems given in Experiment No.2
5. Introduction to SRS and to Prepare SRS Document for University Management System.
6. Introduction to Data Dictionary.
7. To Construct any two DD from the systems given in the Experiment No. 2.
8. Introduction to Use Case Diagrams.
9. Draw any two Use Case Diagram from the systems given in Experiment No.2
10. Introduction to Sequence and Collaboration Diagrams.
11. Draw any two sequence and collaboration diagrams from the systems given in Experiment No.2
12. Introduction to Class Diagrams.
13. Draw any two class diagrams from the systems given in Experiment No.2
14. Introduction to Activity Diagram.
15. Draw any two activity diagram from the systems given in Experiment No.2

16. Introduction to State Transition Diagram.
17. Draw any two state transition diagrams from the systems given in Experiment No.2
18. Perform Estimation of effort using FP Estimation for chosen system.
19. To determine the nature of roots of a quadratic equations, its input is triple of +ve integers (say x, y, z) and values may be from interval[1,100] the program output may have one of the following:-[Not a Quadratic equations, Real roots, Imaginary roots, Equal roots]. Perform Boundary Value Analysis.
20. To determine the area of the circle, triangle, square and rectangle and write test cases by performing equivalence class testing.