**SOFTWARE ENGINEERING LAB**

**Paper Code: ETCS-353 L T/P C**

**Paper: Software Engineering Lab 0 2 1**

**Tool Required: Rational Rose Enterprise Edition**

**List of Experiments:**

1. Write down the problem statement for a suggested system of relevance.

2. Do requirement analysis and develop Software Requirement Specification Sheet

(SRS) for suggested system.

3. To perform the function oriented diagram: Data Flow Diagram (DFD) and Structured chart.

4. To perform the user’s view analysis for the suggested system: Use case diagram.

5. To draw the structural view diagram for the system: Class diagram, object diagram.

6. To draw the behavioral view diagram : State-chart diagram, Activity diagram

7. To perform the behavioral view diagram for the suggested system : Sequence diagram,

Collaboration diagram

8. To perform the implementation view diagram: Component diagram for the system.

9. To perform the environmental view diagram: Deployment diagram for the system.

10. To perform various testing using the testing tool unit testing, integration testing for a sample code of the suggested system.

11. 10 Perform Estimation of effort using FP Estimation for chosen system.

12. 11 To Prepare time line chart/Gantt Chart/PERT Chart for selected software project.

**Text Books:**

**1. K.K. Aggarwal & Yogesh Singh, “Software Engineering”, New Age International, 2005**

**2. Pankaj Jalote, “An Integrated Approach to Software Engineering”, Second Edition, Springer.**

NOTE:- At least 8 Experiments out of the list must be done in the semester.