

SOFTWARE ENGINEERING LAB

Externals: 60Marks

Internals: 40Marks

L-T-P-C

0-0-3-2

Objectives:

- Able to prepare SRS document, design document, test cases and software configuration management and risk management related document.
- Develop function oriented and object oriented software design using tools like rational rose.
- Able to perform unit testing and integration testing.
- Apply various white box and black box testing techniques
- Able to track the progress of a project using Openproj tool.

Experiments:

1. Identifying the Requirements from Problem Statements
2. Estimation of Project Metrics
3. Modeling UML Use Case Diagrams and Capturing Use Case Scenarios
4. E-R Modeling from the Problem Statements
5. Identifying Domain Classes from the Problem Statements
6. State chart and Activity Modeling
7. Modeling UML Class Diagrams and Sequence diagrams
8. Modeling Data Flow Diagrams
9. Estimation of Test Coverage Metrics and Structural Complexity
10. Designing Test Suites