

AIM:

Scope of this lab is to understand the application of case tools, which focuses on software engineering activities.

OBJECTIVES:

- Software requirements analysis and specification
- Software design
- Software implementation
- Software testing and maintenance
- Communication skills and teamwork
- Modeling techniques and CASE tools
- Software project planning and management

Experiments in the following topics:

1. Study of case tools such as rational rose or equivalent tools
2. **Requirements**
Implementation of requirements engineering activities such as elicitation, validation, management using case tools
3. **Analysis and design**
Implementation of analysis and design using case tools.
4. Study and usage of software project management tools for cost estimation and scheduling
5. Documentation generators - Study and practice of Documentation generators.
6. Data modeling using automated tools.
7. Practice reverse engineering and reengineering using tools.
8. Exposure towards test plan generators, test case generators, test coverage and software metrics.
9. Meta modeling and software life cycle management.

TOTAL= 45 PERIODS