

PL405 Software Engineering Lab

Prerequisites: PL 306

Objective: This course will teach the use of various development, testing and project management tools.

Lab Contents:

Tools/technologies: IDEs: Eclipse/NetBeans/Visual Studio; Java, C++, C#, Ruby on Rails;

1. Design pattern implementation in Java
2. TDD and Refactoring exercises(Eclipse Refactoring, Junit)
3. Source and version control: (Git and Git hub; subversion)
4. Java Doc
5. Build management & Dependency tools –(Maven/Ant build)
6. BDD (ex. JBehave/Cucumber)
7. Static code analysis tools
8. Continuous Integration tool
9. Defect tracking
10. Object Relational mapping (Hibernate)
11. Light weight frameworks(Spring)
12. UI design and testing(desktop/web- selenium)
13. Mini project implementation using Scrum tools