

1.	Title of the course	Software Systems and Tools Laboratory
2.	Course number	CS212P
3.	Structure of credits (L-T-P-C)	0-0-3-2
4.	New course/modification to	Modified with CS302P/SOFTWARE ENGINEERING LABORATORY
5.	To be offered by	Computer Science and Engineering
6.	Proposed by	SRIDHAR CHIMALAKONDA
7.	Prerequisite	None
8.	Course Objective(s): To design and develop open-source software systems and tools using software engineering principles.	
9.	Course Content: Open-source software and tool development practices; Systematic application of software engineering knowledge and skills such as requirements engineering, software architecture, design, development and testing for open-source software development; Usage of technology frameworks, development and deployment environments for software and tool development; Exposure to real world software development environment under constraints of uncertain requirements and deadlines.	
10.	Textbook(s): 1. Fowler M, Refactoring: Improving the Design of Existing Code, 2nd Edition, Addison-Wesley Professional (2018).	
11.	Reference(s): 1. Martin R C, Agile Software Development, Principles, Patterns and Practices, Pearson Higher Education (2013). 2. Sommerville I, Software Engineering, 10th Edition, Pearson Education (2017).	