



# Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India  
(Autonomous Institute Affiliated to University of Mumbai)

Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
TEITL601	Software Engineering Lab	-	-	2	-	-	1	1
		Examination Scheme						
		ISE		ESE		Total		
				Practical	Oral			
40	-	20	60					

<b>Pre-requisite Course Codes</b>	TEITC601 (Software Engineering)	
After successful completion of the course, student will be able to:		
<b>Course Outcomes</b>	CO1	Convert user story into the software requirement specification report.
	CO2	Design quality software for complex problem.
	CO3	Analyze software for risk and configuration management.
	CO4	Measure the assumption made in input and the extend test cases to validate the system

Exp. No.	Experiment Details	Ref.	Marks
1	To Formulate problem statement and prepare software requirement specification for the same.	1,2	5
2	To draw a use case diagram with specification for the case study.	1,3	5
3	To use gant chart to prepare project planning and scheduling	1,4	5
4	To draw Activity diagram for one use case from the case study.	1,2,3	5
5	To draw a data flow diagram for your case study.	1,3	5
6	To perform Risk Management plan for your case study.	1,3	5
7	To find the cyclomatic complexity of your project.	1,2	5
8	Download any change control tool and make changes in the scope of your project.	1,2	5
<b>Total Marks</b>			<b>40</b>

## References:

1. Alan Dennis, Wixom, R M Roth, "System Analysis and Design" – Wiley India.
2. Roger Pressman "Software Engineering: A Practitioner's Approach" Sixth Edition.
3. Ian Sommerville, "Software Engineering", Pearson.
4. Pankaj Jalote, "Software Engineering: A Precise Approach" Wiley India.