BCSE301P	Software Engineering Lab	L	T	Р	С
		0	0	2	1
Pre-requisite	NIL	Syllabus version			
			1.0		
Course Objectiv	es				
1. To introdu	ice the essential Software Engineering concepts.				
2. To impart	concepts and skills for performing analysis, design de	velop, tes	t and	d eve	olve

- 2. To impart concepts and skills for performing analysis, design develop, test and evolve efficient software systems of various disciplines and applications
- 3. To make familiar about engineering practices, standards and metrics for developing software components and products.

Course Outcome

On completion of this course, student should be able to:

1. Demonstrate the complete Software life cycle activities from requirements analysis to maintenance using the modern tools and techniques.

Indica	tive Experiments			
1.	Analysis and Identification of the suitable process models			
2.	Work Break-down Structure (Process Based, Product Based, Geographic			
	Based and Role Based) and Estimations			
3.	Requirement modelling using Entity Relationship Diagram(Structural Modeling)			
4.	Requirement modelling using Context flow diagram, DFD (Functional Modeling)			
5.	Requirement modelling using State Transition Diagram (Behavioral Modeling)			
6.	OO design – Use case Model, Class Model			
7.	OO design – Interaction Models			
8.	OO design – Package, Component and deployment models			
9.	Design and demonstration of test cases. Functional Testing and Non- Functional			
	Testing (using any open source tools)			
10.	Story Boarding and User Interface design Modelling			
	Total Laboratory Hours 30 hours			
Text B	ook(s)			
1.	Ian Somerville, Software Engineering, 10 th Edition, Addison-Wesley, 2015			
Refere	nce Books			
1.	Roger S. Pressman and Bruce R. Maxim, Software Engineering: A Practitioner's			
	Approach, 10 th edition, McGraw Hill Education, 2019			
2.	William E. Lewis, Software Testing and Continuous Quality Improvement, Third			
	Edition,			
	Auerbach Publications, 2017			
Mode	of assessment: Continuous assessments, FAT.			
Recom	mended by Board of Studies 04-03-2022			
Approv	ved by Academic Council No. 65 Date 17-03-2022			