PRN No.	

PAPER CODE	U124 - 385

MAY 2024 (ENDSEM) EXAM

F. Y. B. TECH. (SEMESTER - II)

COURSE NAME: BASICS OF SOFTWARE ENGINEERING　　**BRANCH:** COMPUTER ENGINEERING (SOFTWARE ENGINEERING) (PATTERN 2023)　　**COURSE CODE: SE12235**

Time: [1Hr. 30 Min]   [Max. Marks: 40]

Instructions to candidates:
1) **Figures to the right indicate full marks.**
2) **Use of scientific calculator is allowed**
3) **Use suitable data wherever required**
4) **All questions are compulsory. Solve any one sub question from each Question 1 and 2 and any three sub questions each from Questions 3 and 4.**

Q. No.	Question Description	Max. Marks	CO mapped	BT Level
Q.1	a) Describe software's dual role in product development with examples.	[5]	1	REMEMBER
	b) Outline different real-time and trending applications of software.	[5]	1	REMEMBER
Q2	a) List and explain common fears of practitioners while working in team for software development.	[5]	2	REMEMBER
	b) Identify and describe any two tools for agile project management.	[5]	2	REMEMBER
Q.3	a) Use any five lean software development wastes for showing wastes in production industry activities.	[5]	3	APPLY
	b) Illustrate iron triangle using cost, time and scope relationship variations between modified waterfall approach and agile approach with relevant diagram	[5]	3	APPLY
	c) Apply Little's Law for minimizing work in process in manufacturing and outline "kanban" workflow principles.	[5]	3	APPLY
	d) Illustrate process of backlog grooming with lean thinking and mention implications of it.	[5]	3	APPLY

Q.4	a) Explain full spiral model with the help of diagram and also mention when to use it.	[5]	4	UNDERSTAND
	b) Discuss advantages and disadvantages of spiral model.	[5]	4	UNDERSTAND
	c) Arrange and clarify steps involved in RAD model with the help of suitable diagram.	[5]	4	UNDERSTAND
	d) Outline strengths, weaknesses, and when to use V-shaped model.	[5]	4	UNDERSTAND