VIT
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

REG.NO.:

SLOT: A1+TA1

School of Computer Science Engineering and Information Systems (SCORE)
CONTINUOUS ASSESSMENT TEST - I
WINTER SEMESTER 2024-2025

Programme Name & Branch	**: MCA**
Course Code and Course Name	**: PMCA504L and Software Engineering**
Faculty Name(s)	**: Prof. KIRUBA THANGAM, Prof. RAJESWARI C**
Class Number(s)	**: VL2024250503322, VL202450503317**
Date of Examination	**: 27-01-2025**
Exam Duration	**: 90 minutes**

Maximum Marks: 50

General instruction(s):

- Answer All Questions
- M - Max mark; CO – Course Outcome; BL – Blooms Taxonomy Level (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)
- Course Outcomes

  CO1: Demonstrate the basics of software engineering process, ethics, and development

  CO2: Understand the concept of various process models, activities and improvement

Q. No	Question	M	CO	BL
1.	Examine how the Agile principles contribute to continuous improvement in software development. Analyse the challenges and benefits of applying Agile principles in real-world projects.	10	2	5
2.	Describe how does FDD ensure the timely delivery of features and maintain project momentum? Construct any five features for the "Railway management system", using feature definition template.	10	2	4
3.	Illustrate with diagram the key stages and artifacts in the Scrum process. Mention the seven lean principles that have been adapted for Lean Software Development?	10	2	1
4.	Identify and discuss the seven primary categories of computer software and the new challenges faced by software engineers in developing and maintaining each type.	10	1	1
5.	For a "social media application", a design engineering team has NOT RECOMMENDED Waterfall and V-model. Analyze the project characteristics that likely influenced this decision and discuss why Waterfall and V-model are unsuitable for this application.	10	2	4