



Department of Artificial Intelligence and Machine Learning

Course Code: AI255TBA

Sem: V Semester

Duration: 120 Minutes

Date: 27.11.2024

Maximum Marks: 50

Quiz Marks: 10

CIE-I

Artificial Intelligence Integrated Software Engineering

SL. No	Questions	M	BT	CO
PART-A: QUIZ				
1	List the reasons for Software Failure.	2	1	1
2	Discuss Batch processing system with an Example.	2	2	1
3	What do you mean by Pair Programming and list the advantages of it.	2	1	1
4	Differentiate Plan based development and Agile Development.	2	2	1
5	How can Artificial Intelligence be leveraged to enhance and optimize the Software Development Lifecycle (SDLC)?	2	3	1
PART-B				
1	a) Review the attributes of a Good Software.	5	2	1
	b) Generate five user stories for the E-Commerce applications.	5	4	2
2	a) Analyse modules associated with the Unique Identification System (AADHAAR).	5	4	2
	b) A fintech startup is building a mobile banking app that allows users to manage their accounts, transfer funds, and track expenses. The product owner emphasizes the importance of delivering features quickly to maintain a competitive advantage. The development team is adhering to Agile practices and working in two-week sprints. Which principles of Agile Methodology can the team apply to handle this change effectively?	5	4	2
3	a) Deliberate eXtreme Programming (XP) practices in detail.	5	2	1
	b) Explain Principle of Agile Method.	5	2	1
4	a) Summarize Testing phases in a plan-driven software process.	5	2	2
	b) Discuss the steps in Prototype development.	5	2	1
5	a) A software development company has been hired to build a hospital management system for a large healthcare facility. The system needs to manage patient records, doctor schedules, billing, and pharmacy inventory. The client has provided detailed requirements and insists on strict deadlines. However, they also emphasize that the project must meet specific regulatory compliance standards for patient data protection.	10	3	1



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		1. How would the team apply the incremental model in this project? Outline the steps they would follow.			
		2. What challenges might the team face when using the Waterfall Model for this project? How could they mitigate these challenges?			

Course Outcome

CO1	Summarize the activities in Software Engineering and the use of artificial Intelligence in Software Engineering
CO2	Competence in software requirements analysis and software design
CO3	Demonstrate the use of modern tools for software design by exhibiting teamwork through oral presentations and reports
CO4	Apply AI techniques to automate software engineering tasks such as testing, debugging, and code analysis
CO5	Conduct case studies to appraise the benefits of integrating AI in software engineering

M-Marks, BT-Blooms Taxonomy Levels, CO-Course Outcomes

Marks Distribution	Particulars	CO1	CO2	CO3	CO4	L1	L2	L3	L4	L5	L6
	CIE Max Marks	30	20	-	-	-	25	10	15	-	-
	QUIZ Marks	10	-	-	-	4	4	2			