SAHYADRI
COLLEGE OF ENGINEERING & MANAGEMENT
An Autonomous Institution
MANGALURU

Department of Information Science & Engineering and CSE (Data Science)

Assignment - EVEN Semester 2023 - 24

Course Title: Software Engineering & Project Management	**Course Code:** 21CS61
Faculty: Dr. Prakhyath Rai	**Semester:** VI
Date of Announcement: 02/05/2024	**Date of Submission:** 19/07/2024

Q. No	Questions	Bloom's Level	CO No.	Marks
Case Study & Field Work Form a team (Max: 4 Students) and complete a case study with field work. Connect with an industry professional to gain insights into their software or product development process. The objective of this assignment is to analyze and understand how different phases of software development are executed in a real-world setting. Relate the findings to the concepts covered in class. The case study should cover the following areas:				
1	**Software Process & Requirements** Describe the software process model followed by the organization. Detail the methods used for requirements gathering, analysis, and documentation. How are requirements validated and managed throughout the project lifecycle?	**CL2**	**CO1**	**10**
2.	**Modelling, Design & Construction** Explain the modelling and design techniques employed. What models (e.g., UML diagrams) and design principles are utilized? Discuss how the design is created, reviewed, and approved for construction. Platforms employed in development phase.	**CL2**	**CO2**	**10**
3	**Testing & Deployment** Describe the testing strategies and types of testing (unit, integration, system, etc.) used. Outline the deployment process and delivery mechanisms. What challenges are faced during these phases, and how are they addressed?	**CL2**	**CO3**	**10**
4	**Project Management** Analyze the project management practices. How are projects planned, executed, monitored, and controlled? Discuss the tools and methodologies used for project management.	**CL2**	**CO4**	**10**
5	**Activity Planning** Investigate the activity planning processes. How are tasks identified, scheduled, allocated, and tracked? What techniques/models are used for ensuring timely completion and resource management?	**CL2**	**CO5**	**10**

Cognitive Levels of Bloom's Taxonomy

No.	CL1	CL2	CL3	CL4	CL5	CL6
Level	Remember	Understand	Apply	Analyze	Evaluate	Create

Course Outcomes

CO1	Understand the activities involved in software engineering and analyze the role of various process models	CL2
CO2	Explain the basics of object-oriented concepts and build a suitable class model using modeling techniques	CL2
CO3	Interpret various software testing methods and to understand the importance of agile methodology.	CL2
CO4	Apply the Concepts of project planning and quality management in software development	CL2
CO5	Illustrate the importance of activity planning and its models	CL2

Assessment Method		
Sl. No.	**Assessment Component**	**Marks Allotted**
1.	Industry Process Understanding and Insights	3
2.	Preparation and Presentation	3
3.	Professional Ethics	2
3.	Recall	2