

--	--	--	--	--	--	--	--	--	--

# Gandhi Institute of Engineering and Technology University, Odisha, Gunupur (GIET University)



B. Tech (Seventh Semester - Regular) Examinations, November – 2024  
**21BCMOE47011 – SOFTWARE PROJECT MANAGEMENT**  
(CSE-AIML & CSE-DS)

Time: 3 hrs

Maximum: 70 Marks

**Answer ALL questions****(The figures in the right hand margin indicate marks)****PART – A****(2 x 5 = 10 Marks)**Q.1. Answer **ALL** questions

	CO #	Blooms Level
a. Software can be developed in .....Ways. Explain.	CO1	K2
b. Explain about different stages of software process	CO2	K2
c. Explain the differences between proprietary and open-source languages.	CO4	K2
d. Draw a simple PERT network diagram for a project.	CO3	K3
e. What is the impact of social media on project communication?	CO4	K1

**PART – B****(15 x 4=60 Marks)**Answer **ALL** the questions

	Marks	CO #	Blooms Level
2. a. Explain the significance of stakeholder analysis in project evaluation. Describe the tools and techniques used.	8	CO1	K2
b. Discuss the role of monitoring and evaluation in project management. Explain the differences.	7	CO1	K3
(OR)			
c. Discuss about different category of SW project.	8	CO1	K3
d. Describe the project planning process and its significance in project management.	7	CO1	K2
3.a. We have a project with high uncertainty and risk. Which type of process model we will use to develop the project?	8	CO2	K3
b. Discuss the role of historical data in effort estimation. Explain how to apply learning from past projects.	7	CO2	K3
(OR)			
c. Explain about V model along with its advantage	8	CO2	K2
d. Describe the COCOMO (Constructive Cost Model) effort estimation model. Explain its application and limitations.	7	CO2	K2
4.a. Evaluate the effectiveness of risk mitigation strategies (e.g., avoidance, transfer, and acceptance).	8	CO3	K3
b. Analyze the activity planning and risk management processes of a successful project. Identify best practices.	7	CO3	K3
(OR)			
c. Compare and contrast the Critical Path Method (CPM) and Program Evaluation and Review Technique (PERT) for activity planning.	8	CO3	K2
d. Explain the concept of dependencies in activity planning. Discuss the types of dependencies (e.g., mandatory, discretionary).	7	CO3	K2
5.a. Describe the process of creating a staffing plan for a software project. What are the key components of such a plan?	8	CO4	K2

b. Explain the role of artificial intelligence and machine learning in process automation.	7	CO4	K2
--	---	-----	----

(OR)

c. Describe the role of recognition and rewards in staff motivation.	8	CO4	K2
d. Explain the importance of staffing planning in software projects. Discuss the factors that influence staffing decisions.	7	CO4	K2

--- End of Paper ---