

Enrollment No.....



Faculty of Engineering
End Sem Examination Dec 2024

ME3EL21 Project Management

Programme: B.Tech.

Branch/Specialisation: ME

Maximum Marks: 60**Duration: 3 Hrs.**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- | | | Marks | BL | PO | CO | PSO |
|-----|--|-------|----|------|----|-----|
| Q.1 | i. What is the primary objective of project management? | 1 | 1 | 1,10 | 1 | 3 |
| | (a) To complete tasks without any plan | | | | | |
| | (b) To achieve project goals within scope, time, and budget | | | | | |
| | (c) To create a project without a defined team | | | | | |
| | (d) To avoid risks and changes | | | | | |
| | ii. Which of the following is a key component of project management? | 1 | 2 | 1,10 | 1 | 3 |
| | (a) Project hobbies | | | | | |
| | (b) Risk assessment | | | | | |
| | (c) Daily attendance tracking | | | | | |
| | (d) Elimination of team collaboration | | | | | |
| | iii. What is the main purpose of network analysis in project management? | 1 | 1 | 1,10 | 2 | 3 |
| | (a) To manage project risks | | | | | |
| | (b) To identify project dependencies and timelines | | | | | |
| | (c) To organize team meetings | | | | | |
| | (d) To evaluate project cost | | | | | |
| | iv. Which of the following is a key tool used in network analysis? | 1 | 2 | 1,10 | 2 | 3 |
| | (a) Gantt chart | | | | | |
| | (b) Critical Path Method (CPM) | | | | | |
| | (c) Budget forecasting | | | | | |
| | (d) SWOT analysis | | | | | |

	[2]		[3]
v.	What is the primary role of leadership in project management? (a) To allocate resources effectively (b) To motivate and guide the project team (c) To conduct market research (d) To monitor project costs	1 1 ^{1,10} _{11,12} 3 3	Q.2 i. What are the three main constraints in project management? ii. Define project management and mention its key phases. iii. Explain the importance of risk management in project management with an example. OR iv. Describe the role of a project manager and how it contributes to the success of a project.
vi.	Which of the following is a key factor in establishing a positive project culture? (a) Strict control over team members (b) Clear communication and collaboration (c) High focus on individual performance (d) Limited involvement of stakeholders	1 1 ^{1,10} _{11,12} 3 3	Q.3 i. What does the Critical Path Method (CPM) help determine in project management? ii. Explain the significance of identifying project dependencies using network analysis. OR iii. How does network analysis help in managing project delays?
vii.	What is the main purpose of project duration control? (a) To minimize project cost (b) To ensure project completion within the planned timeline (c) To allocate resources more effectively (d) To manage project risks	1 2 ^{1,10} _{11,12} 4 3	Q.4 i. Why is leadership important in project management? ii. Explain how project culture can impact team performance. OR iii. Describe the impact of organizational structure on project success.
viii.	Which technique is commonly used to control project duration? (a) Resource levelling (b) Risk analysis (c) Budget forecasting (d) SWOT analysis	1 2 ^{1,10} _{11,12} 4 3	Q.5 i. What is the importance of monitoring project duration? ii. What are some common strategies to manage and reduce project delays? OR iii. How can resource leveling help in controlling project duration?
ix.	Which of the following is a key component of project appraisal? (a) Evaluating project risks (b) Defining project scope (c) Assessing the feasibility and potential benefits of the project (d) Assigning tasks to team members	1 1 ^{1,10} _{11,12} 5 3	Q.6 Attempt any two: i. Explain the role of project managers in strategic planning. ii. Explain project appraisal and its importance. iii. What is strategic planning in project management?
x.	What is the main purpose of strategic planning in project management? (a) To outline the project's daily tasks (b) To define long-term goals and guide decision-making (c) To assign roles to team members (d) To manage project budgets	1 1 ^{1,10} _{11,12} 5 3	*****

End Semester Examination - Dec 2024
ME SEL21 Project Management
Scheme of Marking

- Q1 i) b
ii) b
iii) b
iv) b
v) b
vi) b
vii) b
viii) a
ix) c
x) b

- Q2 i) 2 marks for highlighting three main constraints in project management
ii) 1 marks for defining project management & 2 marks for key phases
iii) 3 marks importance of risk management & 2 marks for example.
iv) 3 marks for role of project manager & 2 marks for explaining how project manager contributes in success of a project.
- Q3 i) 2 marks for explaining the effectiveness of critical path method in project management.
ii) 2 marks for defining network analysis, 6 marks for highlighting the significance of identifying project dependences.
iii) 1 marks for defining network analysis, 7 marks on explaining & highlighting key points managing project & delays through identification of critical path, visualization of dependences, resource optimization & allocation, crash scheduling.
- Q4 i) 3 marks minimum & points (1 mark for each point).
ii) 3 marks for defining project culture & its importance, 4 marks for impact of project culture on team performance.
iii) 5 marks for defining organizational structure & its influence on project success. 2 marks for explaining with some examples.

Q5 i) 1 marks for defining project duration, 3 marks for importance of monitoring project duration in ensuring timely delivery & ~~not~~ meeting project objectives.

ii) 2 marks for mentioning the common strategies, 4 marks for explaining each.

iii) 2 marks for explaining resource leveling, 4 marks for highlighting how resource leveling help in controlling project duration.

Q6 i) 1 mark for defining strategic planning, 4 marks for role/importance of project manager in strategic planning.

ii) 2 marks for explaining project appraisal, 3 marks for highlighting importance

iii) 1 marks for defining strategic planning, 4 marks for highlighting how it helps in project management.