

K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

May-June : 2025-2026			
(B. Tech.) Program: Computer Engineering Scheme: II			
Regular: Mtech-FY		Semester: II	
Course Code: PCEILC2051		and Course Name: Project Management	
Date of Exam: 03/06/26	Duration: 02.5 Hours		Max. Marks: 60

Instructions: (1) All questions are compulsory. (2) Draw neat diagrams wherever applicable. (3) Assume suitable data, if necessary.				
Q. No.	Question	Max. Marks	CO	BT level
Q 1	Solve any two questions out of three: (05 marks each)	10		
a)	Apply a suitable project selection model (numeric/scoring model) for selecting the best project among alternatives.		CO2	U
b)	Explain Work Breakdown Structure (WBS) and develop a WBS for a software/AI-based project.		CO3	Ap
c)	Explain the concept of Project Life Cycle and Triple Constraints. Differentiate between Project and Operations.		CO1	U
Q 2	Solve any two questions out of three: (05 marks each)	10		
a)	Explain PERT/CPM techniques and determine the critical path for a given project network.		CO4	U
b)	Explain project leadership and ethics. Discuss challenges in managing multicultural and virtual teams.		CO6	U
c)	Describe planning, monitoring, and controlling cycle in project execution with suitable example		CO5	U
Q.3	Solve any two questions out of three. (10 marks each)	20		
a)	Explain the closing phase of project management. Discuss types of project termination and importance of lessons learned.		CO6	U
b)	Describe Project Portfolio Management process and explain the role of project sponsor and project charter.		CO2	U

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c)	Explain project leadership skills and ethical considerations required for successful project completion.		CO6	U
Q.4	Solve any two questions out of three. (10 marks each)	20		
a)	Apply networking techniques (PERT/CPM) to develop project schedule and identify critical activities.		CO3	Ap
b)	Apply Earned Value Management (EVM) technique to analyze project performance with suitable example.		CO5	Ap
c)	Explain risk management process in projects. Discuss qualitative and quantitative risk analysis techniques.		CO4	U
