

# School of Business

MBA  
ETE - May 2023

Time : 3 Hours

Marks : 50

## Sem IV - MBIT6007 - Software Project Management

*Your answer should be specific to the question asked*

*Draw neat labeled diagrams wherever necessary*

1. Identify the problems that a project manager can face. K2 CO1 (2)
2. Explain the importance of project planning in software project management. K2 CO2 (2)
3. Explain the concept of 'agile methodology' in software development. K4 CO3 (2)
4. Identify the roles and responsibilities of a software project team. K4 CO4 (2)
5. Identify the project constraints that can impact software development. K4 CO5 (2)
6. Analyze the role of project governance in ensuring successful software project management. K4 CO1 (5)
7. Evaluate the challenges of managing a software project team across different locations and time zones, and recommend strategies for effective virtual team management. K4 CO2 (5)
8. Analyze the importance of project team leadership in software project management, and recommend effective leadership strategies for project teams. K5 CO5 (6)
9. Analyze the challenges of managing software projects with distributed teams and recommend effective strategies for managing distributed teams in software project management. K5 CO3 (8)
10. Evaluate the importance of project scheduling in software project management, and recommend effective strategies for project scheduling. K5 CO4 (8)
11. K6 CO5 (8)

ABC Technologies is a large technology company that has recently been awarded a contract to develop a new software product for a client in the healthcare industry. The project is expected to take 24 months to complete, with a budget of \$10 million. The project team consists of 75 members, including developers, testers, project managers, and other support staff.

The project team faces several challenges during the course of the project. First, there are issues with the project scope, with the client requesting additional features and functionality that were not included in the original project plan. This leads to delays in the project timeline and an increase in costs. Second, there are communication issues between team members, with team members working in different locations and time zones. This makes it difficult for the team to collaborate effectively, and can result in misunderstandings and delays. Third, there are issues with the software development process, including unclear requirements and a lack of testing. This can result in software defects and quality issues. Fourth, there are issues with project governance, with unclear lines of authority and decision-making processes. This can lead to confusion and delays.

To address these challenges, the project team takes several steps. First, they establish a clear project governance structure, with clearly defined roles and responsibilities for all team members. This helps to streamline decision-making and reduce delays. Second, they establish a comprehensive communication plan, with regular team meetings, status updates, and project reports. This helps to ensure that team members are aware of project progress and any issues that need to be addressed. Third, they establish a robust software development process, with clear requirements and testing procedures. This helps to ensure that the software is delivered on time and meets quality standards. Fourth, they work closely with the client to manage the scope of the project, with regular reviews of project goals and deliverables. This helps to ensure that the project remains on track and within budget.

Question 1: Using relevant project management concepts and theories, analyze the challenges faced by the project team in the ABC Technologies case study.

Question 2: Evaluate the effectiveness of the steps taken by the project team to address the challenges in the ABC Technologies case study, drawing on relevant project management concepts and theories.