



P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Eighth Semester, B.E. - Computer Science and Engineering

Semester End Examination; July / Aug. - 2022

Software Project Management

Time: 3 hrs

Max. Marks: 100

Course Outcomes

The Students will be able to:

CO1: Evaluate a project to develop the scope of work, provide accurate cost estimates and to plan the various activities.

CO2: Apply risk management analysis techniques that identify the factors that put a project at risk and to quantify the likely effect of risk on project.

CO3: Identify the resources required for a project and to produce a work plan and resource schedule.

CO4: Monitor the progress of a project and to assess the risk of slippage, revising targets counteract drift.

CO5: Use appropriate metrics to manage the software development outcome, develop research methods and techniques appropriate to defining, planning and carrying out a research project within your chosen specialist area within the management of software projects.

Note: I) PART - A is compulsory. **Two** marks for each question.

II) PART - B: Answer any **Two** sub questions (from a, b, c) for a Maximum of **18 marks** from each unit.

Q. No.	Questions	Marks	BLs	COs	POs
I : PART - A		10			
I a.	What is configuration management?	2	L1	CO1	PO5
b.	List different ways of identifying the potential risks.	2	L2	CO2	PO1,2
c.	What are the skill sets for design phase?	2	L2	CO3	PO1,2
d.	What are the dimensions of requirements gathering?	2	L5	CO4	PO3,4
e.	What is meant by people capability maturity model?	2	L6	CO5	PO3,4
II : PART - B		90			
UNIT - I		18			
1 a.	Explain the typical metrics strategy.	9	L2	CO1	PO1,2,3,4
b.	What are the steps that constitute software configuration management?	9	L2	CO1	PO3,4
c.	Discuss in detail challenging areas in software projects.	9	L2	CO1	PO4
UNIT - II		18			
2 a.	What is risk management? Explain Risk management cycle.	9	L1,2	CO2	PO1,3,4
b.	What is risk mitigation? Explain common risk categories, risks, symptoms and mitigation.	9	L2,6	CO2	PO4
c.	Explain the different steps of tracking and closer of project.	9	L2	CO2	PO4,6,8
UNIT - III		18			
3 a.	What is software estimation? Explain estimation of design and development.	9	L1,2	CO3	PO11,12
b.	Explain user interface issues.	9	L2,6	CO3	PO4
c.	Explain for the estimation process.	9	L1,6	CO3	PO1,3

UNIT - IV**18**

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|------|---|---|----|-----|-----------|
| 4 a. | Identify the activities of project management in software testing and maintenance phase. | 9 | L1 | CO4 | PO1,3,5,7 |
| b. | Explain the advantages of using geographically distributed teams for the maintenance phase. | 9 | L2 | CO4 | PO2,3,4,6 |
| c. | Discuss the estimate test efforts and define the team distributed geographically. | 9 | L2 | CO4 | PO2,3,4,6 |

UNIT - V**18**

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|------|--|---|------|-----|---------|
| 5 a. | Why globalization and the need for effective global project? | 9 | L1,3 | CO5 | PO3,4,5 |
| b. | What is the effect of internet on project management? | 9 | L1,3 | CO5 | PO3,4 |
| c. | Explain growing emphasis on people centric models. | 9 | L2 | CO5 | PO1,2,4 |

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