



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 - 2023

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			
1 a.	What are UCL and LCL?	2	L1	CO1	PO1,2
b.	Why is risk management important?	2	L1	CO2	PO2
c.	What are the dimensions of requirement gathering?	2	L1	CO3	PO1,2
d.	List the activities during maintenance phase.	2	L4	CO4	PO4
e.	What are the challenges in building Global teams?	2	L2	CO5	PO3,4
II : PART - B		90			
UNIT - I		18			
2 a.	Name and explain different metric strategies.	9	L1,2	CO1	PO3,4
b.	What is configuration management? Explain the process and activities of software configuration management.	9	L1,2	CO1	PO1,3
c.	Discuss software configuration management in geographically distributed teams.	9	L6	CO1	PO4
UNIT - II		18			
3 a.	What in Risk management? Explain why it is important?	9	L1,2	CO2	PO1,2
b.	List and explain some of the tools and techniques of Risk identification.	9	L1,2	CO2	PO2,4
c.	Discuss metrics in Risk management.	9	L6	CO2	PO3,4

UNIT - III**18**

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|---|---|----|-----|--------|
| 4 a. What are the challenges involved during the requirements management phase. | 9 | L1 | CO3 | PO3,11 |
| b. Discuss the three phases of estimation for a project. | 9 | L6 | CO3 | PO4,11 |
| c. Discuss external and internal standards of design. | 9 | L6 | CO3 | PO3 |

UNIT - IV**18**

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|---|---|----|-----|----------|
| 5 a. Distinguish black box and white box testing during the product life cycle. | 9 | L4 | CO4 | PO4,5 |
| b. Explain how management structures for testing in global teams are organized? | 9 | L2 | CO4 | PO4,5,10 |
| c. Explain proactive defect prevention. | 9 | L2 | CO4 | PO4,5 |

UNIT - V**18**

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|---|---|----|-----|---------|
| 6 a. Discuss the challenges in building Global teams. | 9 | L6 | CO5 | PO4,9 |
| b. Explain the effect of internet on project management. | 9 | L2 | CO5 | PO10,11 |
| c. Explain with the diagram People Capability Maturity Model (P-CMM). | 9 | L2 | CO5 | PO9,11 |

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