

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech. III Year II Semester Regular Examinations April-2026

SOFTWARE PROJECT MANAGEMENT

(Common to CIC, CAD, CCC, CSE & CSIT)

Time: 3 Hours

Max. Marks: 70

PART-A

(Answer all the Questions 10 x 2 = 20 Marks)

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|---|---|---|-----|----|----|
| 1 | a | How can Conventional Software Management be defined? | CO1 | L1 | 2M |
| | b | What is meant by the term software cost? | CO1 | L1 | 2M |
| | c | Mention any four principles of conventional software engineering. | CO2 | L1 | 2M |
| | d | How do the construction and transition phases differ from each other? | CO2 | L1 | 2M |
| | e | What are the key indicators of a Software Development Plan? | CO3 | L1 | 2M |
| | f | How are engineering artifacts defined? | CO3 | L1 | 2M |
| | g | What does process automation mean in software engineering? | CO4 | L1 | 2M |
| | h | Name any two building blocks used in automation. | CO4 | L1 | 2M |
| | i | What is meant by the evolution of organizations? | CO5 | L1 | 2M |
| | j | What does CCPDS-R stand for and represent? | CO5 | L1 | 2M |

PART-B

(Answer all Five Units 5 x 10 = 50 Marks)

UNIT-I

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|---|---|---|-----|----|----|
| 2 | a | Explain about water fall model with neat architecture. | CO1 | L2 | 5M |
| | b | Discuss the limitations of the Waterfall model with proper explanation. | CO1 | L2 | 5M |

OR

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| 3 | | How can the required quality be achieved in a software product? Explain in detail. | CO1 | L2 | 10M |
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UNIT-II

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| 4 | | Explain the principles of modern software management in brief. | CO2 | L2 | 10M |
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| 5 | | Describe the objectives of the following phases:
i) Inception ii) Elaboration iii) Construction iv) Transition | CO2 | L2 | 10M |
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UNIT-III

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| 6 | | Analyze the status of plans, requirements, and product at major milestones in software development. | CO3 | L4 | 10M |
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| 7 | a | Explain the product hierarchy in a conventional Work Breakdown Structure (WBS). | CO3 | L2 | 5M |
| | b | Discuss the issues associated with conventional Work Breakdown Structures. | CO3 | L2 | 5M |

UNIT-IV

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|---|---|---|-----|----|----|
| 8 | a | Explain the concept of the project environment in software engineering. | CO4 | L2 | 5M |
| | b | List and explain any three core metrics used in project management. | CO4 | L2 | 5M |

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|---|---|--|-----|----|----|
| 9 | a | Describe how quality is measured in software projects. | CO4 | L2 | 5M |
| | b | Write a short note on managing people in software projects and analyze its importance. | CO4 | L4 | 5M |

UNIT-V

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| 10 | | Describe how organizations have evolved in the field of software engineering. | CO5 | L2 | 10M |
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OR

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| 11 | a | Explain the concept of next-generation software economics. | CO5 | L2 | 5M |
| | b | Discuss the importance of software economics in modern software projects. | CO5 | L2 | 5M |

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