

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

**B.Tech IV Year I Semester Regular Examinations February-2024**

**SOFTWARE PROCESS & PROJECT MANAGEMENT**

(Computer Science & Information Technology)

**Time: 3 Hours**

**Max. Marks: 60**

(Answer all Five Units 5 x 12 = 60 Marks)

**UNIT-I**

1 Explain the Software Maturity Framework and its significance in software development processes. **CO1 L2 12M**

**OR**

2 a Explain structure of PSP in detail. **CO1 L4 6M**  
b Explain structure of TSP in detail. **CO1 L4 6M**

**UNIT-II**

3 Define Waterfall Model in detail. Illustrate Five necessary improvements for waterfall model? **CO2 L2 12M**

**OR**

4 a What role do artifact sets play in the software development life cycle? **CO2 L5 6M**  
b How do management artifacts aid project managers in decision-making? **CO2 L5 6M**

**UNIT-III**

5 a Why are Periodic status assessments crucial in software project management? **CO3 L4 6M**  
b Why are major milestones important in the software development process? **CO3 L4 6M**

**OR**

6 Explain the pragmatic planning in the software development. **CO3 L4 12M**

**UNIT-IV**

7 a How do management indicators differ from the seven-core metrics in project management? **CO4 L3 6M**  
b Why are quality indicators important in project control and process instrumentation? **CO4 L3 6M**

**OR**

8 a How do project organizations differ from traditional line-of-business structures? **CO4 L2 6M**  
b What are the key advantages and challenges associated with project organizations? **CO4 L2 6M**

**UNIT-V**

9 a Describe overview of the objectives and scope of the CCPDS-R project. **CO5 L2 6M**  
b What were the key challenges faced by the CCPDS-R project? **CO5 L2 6M**

**OR**

10 a How has the adoption of Agile and DevOps influenced modern software project management? **CO5 L5 6M**  
b Explain the specific tools or platforms that have become instrumental in modern project management? **CO5 L3 6M**

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