

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
MCA I Year II Semester Regular & Supplementary Examinations June/July-2025
SOFTWARE ENGINEERING

Time: 3 Hours**Max. Marks: 60**

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

UNIT-I

- 1 Define Software, Software Engineering and Process. Discuss nature of Software. **CO1 L1 12 M**

OR

- 2 a Identify the importance of Incremental Process model. **CO1 L3 6 M**
 b Discuss Water fall model in detail. **CO1 L6 6 M**

UNIT-II

- 3 Define requirements engineering and explain ground work analysis. **CO2 L3 12 M**

OR

- 4 a What is eliciting requirements? Explain. **CO2 L1 6 M**
 b What is class based modeling? Explain. **CO2 L3 6 M**

UNIT-III

- 5 Explain Data design and Architectural design. **CO3 L5 12 M**

OR

- 6 Explain the following. **CO3 L3 12 M**
 i) Component level design patterns ii) User interface design patterns.

UNIT-IV

- 7 Explain the following. **CO4 L2 12 M**
 i) Validation testing ii) SystemTesting iii)The art of debugging.

OR

- 8 Identify the roles of Testing methods applicable at class level and Interclass test case design. **CO4 L3 12 M**

UNIT-V

- 9 Identify what are Metrics for software quality? Explain. **CO5 L3 12 M**

OR

- 10 Identify reengineering Activities. Explain Reverse engineering. **CO5 L3 12 M**

***** END *****