



R22 Regulation

Subject code: 4E4ED

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech IV Semester Regular/Supplementary Examinations, April 2025

SOFTWARE ENGINEERING (Common to CSE, CSE(AI&ML) & CSE(DS))

Maximum Marks: 60

Date: 04.05.2025

Duration: 3 hours

- Notes:**
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any two full questions from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

Answer All the following questions (any 10 out of 10)	(10×10=10 Marks)	Marks	CO	Bloom Tx
1.a) What is an audit process?				L1
b) What are the merits of incremental model?				L1
c) What is the significance of feasibility study?				L1
d) List the characteristics of good SRS document?				L1
e) Give the guidelines for data dict n.				L1
f) Name the common used architectural styles.				L1
g) State the black box testing?				L1
h) Define debugging?				L1
i) What is software risk?				L1
j) List the software reviews.				L1

Part-B

Answer All the following questions.	(5×10=50 Marks)	Marks	CO	Bloom Tx
1. a. Explain briefly about changing nature of software. b. Explain Spiral model with a neat sketch. What can you say about the software that is being developed or maintained as you move outward when the spiral reaches SOW?	5M 5M		CO1	L2
OR				
2. a. Discuss in brief about different software myths and their consequences. b. Explain waterfall model with an example.	5M 5M		CO1	L3 L3
3. a. Differentiate between functional and non-functional requirements with suitable examples. b. Describe the structure of software requirements document.	5M 5M		CO2	L3 L4
OR				
4. a. Who should be involved in a requirements review? Draw a process model showing how a requirements review might be organized. b. What are the activities of requirements elicitation and analysis? Explain.	5M 5M		CO2	L3
5. List and explain different kinds of architecture styles and attributes.	10M		CO3	L3

	OR			
7	a. Brief the class and sequence diagram with an example. b. Discuss collaboration, component and deployment diagram in detail.	5M 5M	CO3	L2 L3
8	a. What is integration testing? Explain in detail. b. Discuss about metrics for Software measurement in detail.	5M 5M	CO4	L2 L3
	OR			
9	a. Distinguish between verification and validation. Explain about organizing for software testing. b. Explain about the metrics for software quality.	5M 5M	CO4	L3 L2
10	a. Explain about risk projection and risk management. b. Write short notes on RMMM.	5M 5M	CO5	L2 L2
	OR			
11	a. Discuss software quality assurance. b. Explain about formal technical reviews.	5M 5M	CO5	L3 L2