

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2025
(Regular/Improvement/Supplementary)

COMPUTER SCIENCE
FCSS2C10- PRINCIPLES OF SOFTWARE ENGINEERING

Time: 3 Hours**Maximum Weightage: 30****Section A: Short answer questions. Answer any *four* questions. Each carries 2 weightage.**

1. Explain the strengths and weaknesses of structured design versus object-oriented design.
2. Describe the process involved in component-based GUI Development.
3. List out the various types of cohesion and coupling.
4. What are the processes of risk management?
5. Name any two requirements of elicitation techniques.
6. List any two agile process models.
7. What is the difference between verification and validation?

(4 × 2 = 8 weightage)

Section B: Short essay questions. Answer any *four* questions. Each carries 3 weightage.

8. Explain the essential features of a Requirement Specification.
9. Write a note on UI design methodologies.
10. Discuss any four problems faced by research scholars.
11. Demonstrate class diagram and activity diagram with examples.
12. Explain the key features of a good report.
13. Write a note on different forms of communication.
14. Elaborate on an integral part of project management that helps in setting aims and objectives?

(4 × 3 = 12 weightage)

Section C: Essay questions. Answer any *two* questions. Each carries 5 weightage.

15. Discuss the key steps involved in conducting a feasibility study for a software project.
16. Explain the principles of User Interface (UI) design and the basic concepts therein.
17. Describe in detail the key deliverables involved in project story preparation.
18. Outline a strategy for code review that could help detect bugs early and improve software quality.

(2 × 5 = 10 weightage)