

Department of MCA

Session 2025-26 (ODD SEM)

Assignment- 2

Subject Name: Software Engineering

Subject Code: BMC 302

Date of Assignment: 29/09/25

Date of Submission: 03/10/25

Faculty Name: Ms. Shanta, Mr. Nirmal Kr. Saraswat

Sem: III Sec: All

Q. No.	Questions	CO/ KL	Competitive/Univ.
I	Define a feasibility study. And explain its types.	CO2,K1	UPSC ESE 2022
II	Draw Level-2 DFD for Smart College Campus.	CO2,K1	AKTU 2021-22
III	Describe the Components of a good SRS document.	CO2,K2	UPSC ESE 2019
IV	You are leading the requirements team for a hospital management system. The project stakeholders are dissatisfied with incomplete requirements and communication gaps. Develop a comprehensive Software Requirement Specification (SRS) document outline in accordance with IEEE standards. Explain how each section contributes to better project outcomes.	CO2,K2	-
V	A startup designing a food delivery app struggles with vague customer demands. Write a requirement elicitation and analysis strategy that includes interviews, questionnaires, focus groups, prototyping, and observation. Evaluate which techniques are most effective for capturing both functional and non-functional requirements in this case.	CO2,K2	-
VI	For an online examination system, prepare a feasibility study report covering technical, economic, and operational aspects. Include cost estimation, technical resource requirements, and risk evaluation. Justify whether the project should proceed.	CO2,K2	-
VII	A railway reservation system project failed because developers missed key interactions between modules due to the absence of data modeling. Prepare a detailed assignment where you redesign Data Flow Diagrams (DFDs), Entity Relationship (ER) diagrams, and Decision Tables to capture user requirements effectively	CO2,K2	-
VIII	Compare SEI CMM and ISO 9000. List 5 levels of CMM.	CO2,K2	AKTU 2023-24