



**K. K. Wagh Institute of Engineering Education & Research, Nashik**  
(An Autonomous Institute From A.Y. 2022-23)

InSem Examination-II Summer 2025	
Exam Seat No.:	
Academic Year: 2024-2025	Semester: IV
Class: SY	Program: B.Tech
Branch Code: ADS/COM/CSD	Pattern: 2023
Name of Course: Software Engineering	Course Code: 2301213
Max. Marks: 30	Duration: 1.15 Hrs.

**Instructions:** Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains 1 page.
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.

**Marks CO**

**Question No. 1**

- |  |     |     |
|--|-----|-----|
| 1 a) Define Software Engineering. Explain the software characteristics that describes the nature of software | (4) | CO1 |
| 1 b) Draw software process framework   | (3) | CO1 |

**Question No. 2**

- |   |     |     |
|---|-----|-----|
| 2 a) Explain Waterfall model in detail                        | (4) | CO1 |
| 2 b) Compare between incremental model and evolutionary model | (4) | CO1 |

**Group OR**

- |  |     |     |
|--|-----|-----|
| 2 c) Write a short note on extreme programming             | (4) | CO1 |
| 2 d) Compare between the Plan-driven and Agile development | (4) | CO1 |

**Question No. 3**

- |  |     |     |
|--|-----|-----|
| 3 a) With example explain importance of requirement engineering. | (4) | CO2 |
| 3 b) Explain about building the requirements model               | (3) | CO2 |

**Question No. 4**

- |   |     |     |
|---|-----|-----|
| 4 a) Explain requirement elicitation  | (4) | CO2 |
| 4 b) What are the components of a use case diagram? Explain usage of it with example. | (4) | CO2 |

**Group OR**

- |  |     |     |
|--|-----|-----|
| 4 c) Explain the importance of negotiating requirements. | (4) | CO2 |
| 4 d) Describe use cases for safe home requirement        | (4) | CO2 |

..... End of question paper.....