

PROBLEM SET – I

Session	: 2024-25(Even Sem.)	Semester	: IV
Course	: BCA/B.Sc IT	Subject Code	: UCS 4002
Branch	: ALL	Subject Name	: Software Engineering
Group	ALL	Name of Faculty Member	:Er.Amit kumar Singh, Er. Raghuv eer Sachan,Er. Shilpi Shukla
Unit	: I	Topic Covered	: Introduction to Software Engineering, SDLC

1. Discuss the Software Components, and Software Characteristics.
2. Explain the Software Engineering Processes.
3. Explain in brief SDLC.
4. What is water fall model? Explain it.
5. Compare and contrast the Waterfall model and the Spiral model in the context of software development.
6. Describe the importance of a systematic approach in software engineering processes.
7. How does maintainability contribute to the overall quality of software? Provide examples of software characteristics that enhance maintainability.
8. What is evolutionary development model? Explain it.
9. What is iterative enhancement model? Explain it.
10. Define the software crisis and discuss the key factors that contribute to it.

Supplementary Questions: -

1. Explain in brief prototype model.
2. Discuss the software crisis.

Text / Reference Books:

1. Rajib Mall, "Fundamentals of Software Engineering", Third Edition, PHI, 2006 .
2. K. K. Aggarwal and Yogesh Singh, Software Engineering, New Age International Publishers.

(Signature of the Faculty Member with date)

(Signature of the Dean with date)