

Assignment No.2

Subject and Subject code: Software Engineering (BTCS 503-18) **Semester:** 5th

Date on which assignment given: 9/10/2025

Date of submission of assignment: 16/10/2025

Total Marks: 10

Course Outcomes

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| CO1 | Develop a Strategy for the selection of Life cycle models and plan software requirements by analysing and specifying the problem. |
| CO2 | Identify various design issues by specifying software requirements and inspecting coding techniques. |
| CO3 | Formulate an appropriate testing strategy for the given software system. |
| CO4 | Elaborate planning for software project management and ensure quality is enriched. |
| CO5 | Determine state-of-the-art engineering tools for software transformation and reverse engineering work. |

| Assignment related to COs | | Marks Distribution | Relevance to CO No. | Level to Bloom Taxonomy |
|---------------------------|--|--------------------|---------------------|-------------------------|
| Q1 | A database system is to be developed. After analysing requirements its size is estimated to be 10,000 lines of code. Cost drivers are as given below: • Programming language experience =1.07 • Product complexity= 0.85 • Use of software tools= 1.10 Apply COCOMO to calculate overall cost. | (2.5) | CO4 | L3 |
| Q2 | Construct a Gantt chart for online examination software scheduling. | (2.5) | CO4 | L3 |
| Q3 | Distinguish between corrective, adaptive and perfective maintenance. | (2.5) | CO5 | L4 |
| Q4 | Compare ISO 9001 and SEI-CMMI frameworks with examples. | (1.5+1=2.5) | CO5 | L5 |


Subject Coordinator


IQAC Member


HOD