

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

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	<p>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:</p> <ul style="list-style-type: none"> • Programming language experience =1.07 • Product complexity= 0.85 • Use of software tools= 1.10 <p>Apply COCOMO to calculate overall cost.</p>	(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


TQC Member


HOD