



ASSIGNMENT –5, Even Semester (2023-24)

Programme: B.Tech (CSE)	Semester: IV	
Subject Code: BCS-401	Subject: Operating System	M.M. 10
Course Outcome: At the end of this Unit, the student will be able to Understand the Process Concept & Principles of concurrency.		
Knowledge Level (KL)	KL1- Remembering	KL4- Analyzing
	KL2- Understanding	KL5- Evaluating
	KL3- Applying	KL6- Creating
Date of Assignment: 02/07/2024	Date of Submission: 07/07/2024	

1.	State the Critical Section problem. Illustrate the software based solution to the Critical Section problem.	CO2	KL2
2.	Give the principles, mutual exclusion in critical section problem. Also discuss how well these principles are followed in Dekker's solution.	CO2	KL2
3.	State the Producer-consumer problem. Given a solution to the solution using semaphores	CO2	KL1
4.	Explain what semaphores are, their usage, implementation given to avoid busy waiting and binary semaphores.	CO2	KL2
5.	Explain the detail about the inter Process Models and Schemes.	CO2	KL1

**Course Coordinator
/Faculty Signature**

**Head of Department
Dr. Anurag Tiwari**