

## **FACULTY OF TECHNOLOGY**

**Department of Computer Engineering** 

## Result Improvement Assignment A.Y.2023-24

Subject: Operating System (01CE1401) Semester:**4**<sup>th</sup>

## **Assignment for Average Students**

S. No.	Questions				
1	Differentiate process and thread. Explain process state diagram				
2	What is Semaphore? Give the implementation of Bounded Buffer Producer Consumer Problem using Semaphore.				
3	Assume that following jobs have arrived in the order 1,2,3 and 4:				
		Process	Arrival Time	Burst Time	
		1	0	5	-
		2	0	10	
		3	0	2	
		4	0	81	
	All process arrived in order p1, p2, p3, p4 all time zero.				
	(1) Draw gantt charts illustrating execution of these processes for SJF and round				
	robin (quantum=1)				
	(2) Calculate waiting time for each process for each scheduling algorithm				
	(3) Calculate average waiting tim				
4	What are system calls? Explain various types of system calls with example for each				
5	Explain the best fit, first fit and worst fit algorithm				