

Department of Computer Science & Design

Lesson Plan & Work-done Diary for AY: 2024, ODD Semester

Course with Code: Operating System and laboratory–BCS303				Faculty: Darshini Y			Semester & Section: III	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
1.		Develop a c program to implement the Process system calls (fork (), exec(), wait()), create process, terminate process	Lab Observation					
2.		Simulate the following CPU scheduling algorithms to find turnaround time and waiting time a) FCFS b) SJF c) Round Robin d) Priority.	Lab Observation					
3.		Develop a C program to simulate producer-consumer problem using semaphores	Lab Observation					
4.		Develop a C program which demonstrates inter process communication between a reader process and a writer process. Use mkfifo, open, read, write and close APIs in your program.	Lab Observation					
5.		Develop a C program to simulate Bankers Algorithm for Deadlock Avoidance	Lab Observation					
6.		Develop a C program to simulate the following contiguous memory allocation Techniques: a) Worst fit b) Best fit c) First fit.	Lab Observation					
7.		Develop a C program to simulate page replacement algorithms: a) FIFO b) LRU	Lab Observation					
8.		Simulate following File Organization Techniques a) Single level directory b)Two level directory	Lab Observation					

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9.		Develop a C program to simulate the Linked file allocation strategies.	Lab Observation					
10.		Develop a C program to simulate SCAN disk scheduling algorithm.	Lab Observation					
	Activity	Planned	Actual	Remarks				
1	No of Labs	12						
2	Assignments/ Quizzes/ Self-study	-						
3	Tutorials/ Extra classes	-						
4	Internal Assessments	2						
5	ICT based Teaching (% of usage in Curriculum)	100						
Planning				Execution				
Faculty Signature:				Faculty Signature:				
HoD Signature:				HoD Signature:				