

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - DATA SCIENCE

Lesson Plan & Work-done Diary for AY: 2026-27, ODD Semester

Course with Code: Operating Systems - 1BCS304				Faculty: Mrs. Pallavi A R			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
MODULE-1								
1.		Introduction to the course	PPT	1				
2.		What operating systems do, Computer System organization Computer System architecture	PPT	2				
3.		Operating System Structure Operating System operations Process management	PPT	3				
4.		Memory Management Storage management	PPT	4				
5.		Operating System Services; User - Operating System interface	PPT	5				
6.		Operating System Services; User - Operating System interface; System calls, Types of system calls	PPT	6				
7.		System programs; Operating system design and implementation	PPT	7				
8.		Operating System structure	PPT	8				
9.		Revision, Module End Question discussion, Quiz	MS Forms	9				



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MODULE-2								
1.		Process concept; Process scheduling	PPT	1				
2.		Operations on processes; Inter process communication	PPT	2				
3.		Overview; Multithreading models, Thread Libraries, Threading issues	PPT	2				
4.		Process Scheduling: Basic concepts;	PPT	4				
5.		Scheduling Criteria	PPT	5				
6.		Scheduling Algorithms	PPT	6				
7.		Multiple-processor scheduling; Thread scheduling	PPT	7				
8.		Revision, Module End Question discussion, Quiz	MS Forms	8				

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MODULE-3								
1.		Process Synchronization: Synchronization: The critical section problem	PPT	1				
2.		Peterson's solution ; Synchronization hardware	PPT	2				
3.		Semaphores; Classical problems of synchronization;	PPT	3				
4.		Deadlocks ; System model, Deadlock characterization	PPT	4				
5.		Methods for handling deadlocks,	PPT	5				
6.		Deadlock prevention	PPT	6				
7.		Deadlock avoidance	PPT	7				
8.		Deadlock detection and recovery from deadlock	PPT	8				
9.		Revision, Module End Question discussion, Quiz	MS Forms	9				

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MODULE-4								
1.		Memory management strategies, Background;	PPT	1				
2.		Swapping, Contiguous memory allocation	PPT	2				
3.		Paging, Structure of page table,	PPT	3				
4.		Segmentation, Virtual Memory Management: Background	PPT	4				
5.		Demand paging, Copy-on-write;	PPT	5				
6.		Page replacement,	PPT	6				
7.		Allocation of frames; Thrashing	PPT	7				
8.		Revision, Module End Question discussion, Quiz	MS Forms	8.				

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MODULE-5								
1.		File system: File concept, Access methods, Directory structure,	PPT	1				
2.		File system mounting, File sharing	PPT	2				
3.		Implementing File system: File system structure, File system implementation	PPT	3				
4.		Directory implementation, Allocation methods; Free space management	PPT	4				
5.		Mass storage structures, Disk structure,	PPT	5				
6.		Disk attachment, Disk scheduling	PPT	6				
7.		Disk management;	PPT	7				
8.		Revision, Module End Question discussion, Quiz	MS Forms	8				

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	Activity	Planned	Actual	Remarks
1	Theory Classes	42		
2	Assignments/ Quizzes/Self-study	3		
3	Tutorials/ Extra classes	1		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	100		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	