

DEPARTMENT OF COMPUTER SCIENCE & DESIGN

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

Course with Code: Operating Systems[1BCS304]				Faculty: Mrs. Suhasini			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		Bridge Course	PPT					
2		Bridge Course	PPT					
3		Introduction to operating systems, System structures	PPT					
4		What operating systems do; Computer System organization	PPT					
5		Computer System architecture; Operating System structure	PPT					
6		Operating System operations, Process management	PPT					
7		Memory management; Storage management	PPT					
8		Operating System Services: User - Operating System interface	PPT					
9		System calls, Types of system calls	PPT					
10		System programs; Operating system design and implementation	PPT					
11		Operating System structure	PPT					

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MODULE-2								
12		Process Management: Process concept	PPT					
13		Process scheduling, Operations on processes	PPT					
14		Inter-process communication	PPT					
15		Multi-threaded Programming: Overview, Multithreading models	PPT					
16		Thread Libraries, Threading issues	PPT					
17		Process Scheduling: Basic concepts; Scheduling Criteria	PPT					
18		Scheduling Algorithms	Chalk and Talk, PPT					
19		Thread scheduling, Multiple-processor scheduling	PPT					

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MODULE-3								
20		Process Synchronization: Background	PPT					
21		The critical section problem, Peterson's solution	PPT					
22		Synchronization hardware; Semaphores	PPT					
23		Classical problems of synchronization	PPT					
24		Deadlocks: System model; Deadlock characterization	PPT					
25		Methods for handling deadlocks	PPT					
26		Deadlock prevention	Chalk and Talk, PPT					
27		Deadlock avoidance	PPT					
28		Deadlock detection and recovery from deadlock	PPT					

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MODULE-4								
29		Memory Management: Memory management strategies	PPT					
30		Background, Swapping	PPT					
31		Contiguous memory allocation, Paging	PPT					
32		Structure of page table, Segmentation	PPT					
33		Virtual Memory Management: Background	PPT					
34		Demand paging; Copy-on-write	PPT					
35		Page replacement	PPT					
36		Allocation of frames; Thrashing	PPT					

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MODULE-5								
37		File System: File system: File concept; Access methods	PPT					
38		Directory and Disk structure; File system mounting	PPT					
39		File sharing	PPT					
40		Implementing File system: File system structure	PPT					
41		File system implementation; Directory implementation	PPT					
42		Allocation methods; Free space management	PPT					
43		Mass Storage Structure: Mass storage structures; Disk structure	PPT					
44		Disk attachment; Disk scheduling; Disk management	PPT					

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	Activity	Planned	Actual	Remarks
1	Theory Classes	42		
2	Assignments/ Quizzes/ Self-study	2		
3	Tutorials/ Extra classes	-		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	80 %		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	