

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Lesson Plan & Work Done Diary for AY: 2026-2027 ODD SEMESTER

Course with Code: OPERATING SYSTEMS - 1BCS304				Faculty Name:			Semester & Section: III	
Class No.	Date Planned (DD/MM/YYYY)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM/YYYY)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE-1								
1		Bridge Course: What Is OS?	Chalk and Talk, PPT	1				
2		What operating systems do? Computer System organization; Computer System architecture	Chalk and Talk, PPT	2				
3		Operating System structure; Operating System operations;	Chalk and Talk, PPT	3				
4		Process management; Memory management; Storage management.	Chalk and Talk, PPT	4				
5		Operating System Services: User Operating System interface;	Chalk and Talk, PPT	5				
6		System calls; Types of system calls; System programs;	Chalk and Talk, PPT	6				
7		Operating system design and implementation; Operating System structure;	Chalk and Talk, PPT	7				

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MODULE-2								
8		Process Management: Process concept	Chalk and Talk, PPT	8				
9		Process scheduling; Operations on processes; Inter-process communication	Chalk and Talk, PPT	9				
10		Multi-threaded Programming: Overview; Multithreading models;	Chalk and Talk, PPT	10				
11		Thread Libraries; Threading issues	Chalk and Talk, PPT	11				
12		Process Scheduling: Basic concepts; Scheduling Criteria;	Chalk and Talk, PPT	12				
13		Scheduling Algorithms	Chalk and Talk, PPT	13				
14		Scheduling Algorithms	Chalk and Talk, PPT	14				
15		Scheduling Algorithms	Chalk and Talk, PPT	15				



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16		Thread scheduling;	Chalk and Talk, PPT	16				
17		Multiple-processor scheduling	Chalk and Talk, PPT	17				

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MODULE-3								
18		Process Synchronization: Background, The critical section problem;	Chalk and Talk, PPT	18				
19		Peterson's solution; Synchronization hardware	Chalk and Talk, PPT	19				
20		Semaphores; Classical problems of synchronization.	Chalk and Talk, PPT	20				
21		Deadlocks: System model	Chalk and Talk, PPT	21				
22		Deadlock characterization	Chalk and Talk, PPT	22				
23		Methods for handling deadlocks; Deadlock prevention	Chalk and Talk, PPT	23				
24		Deadlock avoidance	Chalk and Talk, PPT	24				
25		Deadlock detection and recovery from deadlock.	Chalk and Talk, PPT	25				

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MODULE-4								
26		Memory Management: Memory management strategies: Background; Swapping	Chalk and Talk, PPT	26				
27		Contiguous memory allocation	Chalk and Talk, PPT	27				
28		Paging; Structure of page table	Chalk and Talk, PPT	28				
29		Segmentation	Chalk and Talk, PPT	29				
30		Virtual Memory Management: Background	Chalk and Talk, PPT	30				
31		Demand paging	Chalk and Talk, PPT	31				
32		Copy-on-write; Page replacement	Chalk and Talk, PPT	32				
33		Allocation of frames; Thrashing	Chalk and Talk, PPT	33				

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MODULE-5								
34		File System: File system: File concept; Access methods	Chalk and Talk, PPT	34				
35		Directory and Disk structure;	Chalk and Talk, PPT	35				
36		File system mounting; File sharing	Chalk and Talk, PPT	36				
37		Implementing File system: File system structure; File system implementation	Chalk and Talk, PPT	37				
38		Directory implementation	Chalk and Talk, PPT	38				
39		Allocation methods; Free space management	Chalk and Talk, PPT	39				
40		Mass Storage Structures	Chalk and Talk, PPT	40				
41		Disk structure; Disk attachment	Chalk and Talk, PPT	41				

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



A T M E
College of Engineering



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