



Lesson Plan & Work-done Diary for AY: 2024-25, odd Semester

Course with Code: Operating Systems -BCS303				Faculty: Ms. Ambika V			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.	15/11/2023	Introduction to the course	PPT	1				
2.	16/11/2023	What operating systems do, Computer System organization Computer System architecture	PPT	2				
3.	17/11/2023	Operating System structure Operating System operations Processmanagement	PPT	3				
4.	22/11/2023	Memory Management Storage management	PPT	4				
5.	23/11/2023	Protection and Security; Distributed system; Special-purpose systems, Computing environments.	PPT	5				
6.	24/11/2023	Operating System Services; User - Operating System interface; System calls,Types of system calls	PPT	6				
7.	29/11/2023	System programs; Operating system design and implementation, Operating System structure	PPT	7				
8.	30/11/2023	Virtual machines; Operating System generation, System boot	PPT	8				
9.	01/12/2023	Revision, Module End Question discussion, Quiz	myQuiz App	9				

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MODULE-2								
1.	01/12/2023	Process concept; Process scheduling	PPT	1				
2.	06/12/2023	Operations on processes; Inter process communication	PPT	2				
3.	07/12/2023	Overview; Multithreading models, Thread Libraries, Threading issues	PPT	2				
4.	08/12/2023	Process Scheduling: Basic concepts; Scheduling Criteria	PPT	4				
5.	13/12/2023	Process Scheduling: Basic concepts;Scheduling Criteria	PPT	5				
6.	14/12/2023	Scheduling Algorithms	PPT	6				
7.	15/12/2023	Multiple-processor scheduling; Thread scheduling	PPT	7				
8.	20/12/2023	Revision, Module End Question discussion, Quiz	myQuiz App	8				

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MODULE-3								
1.	21/12/2023	Process Synchronization: Synchronization: The critical section problem	PPT	1				
2.	22/12/2023	Peterson's solution; Synchronization hardware	PPT	2				
3.	27/12/2023	Semaphores; Classical problems of synchronization; Monitors	PPT	3				
4.	03/01/2024	Deadlocks : Deadlocks; System model, Deadlock characterization	PPT	4				
5.	04/01/2024	Methods for handling deadlocks, Deadlock prevention	PPT	5				
6.	05/01/2024	Deadlock avoidance	PPT	6				
7.	10/01/2024	Deadlock detection and recovery from deadlock	PPT	7				
8.	11/01/2024	Revision, Module End Question discussion, Quiz	myQuiz App	8				

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MODULE-4								
1.	12/01/2024	Memory management strategies,Background; Swapping	PPT	1				
2.	17/01/2024	Contiguous memory allocation, Paging	PPT	2				
3.	18/01/2024	Structure of page table, Segmentation	PPT	3				
4.	19/01/2024	Virtual Memory Management: Background;Demand paging	PPT	4				
5.	25/01/2024	Copy-on-write; Page replacement	PPT	5				
6.	31/01/2024	Page replacement, Allocation offrames; Thrashing	PPT	6				
7.	02/02/2024	Revision, Module End Questiondiscussion, Quiz	myQuiz App	7				

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MODULE-5								
1.	07/01/2024	File system: File concept, Access methods,Directory structure, File system mounting, File sharing	PPT	1				
2.	08/01/2024	Protection, Implementing File system: File system structure,File system implementation	PPT	2				
3.	09/01/2024	Directory implementation,Allocation methods; Free space management	PPT	3				
4.	14/01/2024	Mass storage structures, Disk structure,	PPT	4				
5.	15/01/2024	Disk attachment, Disk scheduling	PPT	5				
6.	16/01/2024	Disk management; Swap space managementProtection: Goals of protection,Principles of protection	PPT	6				
7.	21/01/2024	Domain of protection, Accessmatrix, Implementation of Access matrix	PPT	7				
8.	22/01/2024	Access control, Revocation of accessrights, Capability-Based systems	PPT	8				
9.	23/01/2024	Revision, Module End Question discussion, Quiz	myQuiz App	9				

	Activity	Planned	Actual	Remarks
1	Theory Classes	41		
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:	