Department of Computer Science & Engineering(Data Science)

Lesson Plan & Work-done Diary for AY: 2025-26, odd Semester

Course with Code: Operating Systems -BCS303				Faculty: Dr. Neethi M 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.		**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 Processmanagement	PPT	3				
4.		Memory Management Storage management	PPT	4				
5.		Protection and Security; Distributed system; Special-purpose systems, Computing environments.	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, Operating System structure	PPT	7				
8.		Virtual machines; Operating System generation, System boot	PPT	8				
9.		Revision, Module End Question discussion, Quiz	myQuiz App	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; Scheduling Criteria	PPT	4				
5.		Process Scheduling: Basic concepts;Scheduling Criteria	PPT	5				
6.		Scheduling Algorithms	PPT	6				
7.		Multiple-processor scheduling; Thread scheduling	PPT	7				
8.		Revision, Module End Question discussion, Quiz	myQuiz App	8				

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

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

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MODULE-5								
1.		File system: File concept, Access methods,Directory structure, File system mounting, File sharing	PPT	1				
2.		Protection, Implementing File system: File system structure,File system implementation	PPT	2				
3.		Directory implementation,Allocation methods; Free space management	PPT	3				
4.		Mass storage structures, Disk structure,	PPT	4				
5.		Disk attachment, Disk scheduling	PPT	5				
6.		Disk management; Swap space managementProtection: Goals of protection,Principles of protection	PPT	6				
7.		Domain of protection, Accessmatrix, Implementation of Access matrix	PPT	7				
8.		Access control, Revocation of accessrights, Capability-Based systems	PPT	8				
9.		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:**	