

## Lesson Plan & Work-done Diary for AY: 2022-23, EVEN Semester

Course with Code: Operating Systems -21CS44				Faculty: Mrs. Neethi M V				Semester & Section: IV	
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	
<b>MODULE-1</b>									
1.		<b>Introduction to the course</b>	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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<b>MODULE-2</b>									
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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<b>MODULE-3</b>								
1.		Process Synchronization: Synchronization: The critical section problem	PPT	1				
2.		Peterson's solution; Synchronization hardware	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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<b>MODULE-4</b>								
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 of frames; Thrashing	PPT	6				
7.		Revision, Module End Question discussion, Quiz	myQuiz App	7				

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<b>MODULE-5</b>								
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 management Protection: Goals of protection, Principles of protection	PPT	6				
7.		Domain of protection, Access matrix, Implementation of Access matrix	PPT	7				
8.		Access control, Revocation of access rights, Capability-Based systems	PPT	8				
9.		Revision, Module End Question discussion, Quiz	myQuiz App	9				

	<b>Activity</b>	<b>Planned</b>	<b>Actual</b>	<b>Remarks</b>
<b>1</b>	Theory Classes	41		
<b>2</b>	Assignments/ Quizzes/Self-study	3		
<b>3</b>	Tutorials/ Extra classes	1		
<b>4</b>	Internal Assessments	3		
<b>5</b>	ICT based Teaching (% of usage in Curriculum)	100		
<b>Planning</b>		<b>Execution</b>		
<b>Faculty Signature:</b>		<b>Faculty Signature:</b>		
<b>HoD Signature:</b>		<b>HoD Signature:</b>		