









Department of Computer Science & Design Lesson Plan & Work-done Diary for AY: 2024, ODD Semester

Course with Code: Operating System –BCS303				Faculty	7:	Semester &	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	PPT	1.						
2.		What operating systems do; Computer System organization	PPT	2.						
3.		Computer System architecture, Operating System structure;	PPT	3.						
4.		Operating System operations, Process management; 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, Operating System debugging, System boot	PPT	8.						
9.		Revision, Module End Question discussion, Quiz	My Quiz App	9.						

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			MODU	JLE-2		L	I	<u> </u>
1.		Process Management: Process concept; Process scheduling,	РРТ	1.				
2.		Operations on processes; Inter process communication.	PPT	2.				
3.		Multithreaded Programming: Overview; Multithreading models,	PPT	3.				
4.		Thread Libraries, Threading issues.	PPT	4.				
5.		Process Scheduling: Basic concepts; Scheduling Criteria;	PPT	5.				
6.		Scheduling Algorithms;	PPT	6.				
7.		Thread scheduling;	PPT	7.				
8.		Multiple-processor scheduling;	PPT	8.				
9.		Revision, Module End Question discussion, Quiz	my Quiz App	9.				

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

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			MODU	JLE-4					
1.		Memory Management: Memory management strategies:	PPT	1.					
2.		Background; Swapping;	PPT	2.					
3.		Contiguous memory allocation;	PPT	3.					
4.		Paging; Structure of page table; Segmentation.	PPT	4.					
5.		Virtual Memory Management: Background;	PPT	5.					
6.		Demand paging;	PPT	6.					
7.		Copy-on-write; Page replacement;	PPT	7.					
8.		Allocation of frames; Thrashing	PPT	8.					
9.		Revision, Module End Question discussion, Quiz	myQuiz App	9.					

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			MODU	JLE-5		<u> </u>	<u>l</u>		
1.		File System, Implementation of File System: File system: File concept; Access methods;	PPT	1.					
2.		Directory and Disk structure; File system mounting; File sharing; Implementing File system:	PPT	2.					
3.		File system structure; File system implementation; Directory implementation; Allocation methods; Free space management	PPT	3.					
4.		Secondary Storage Structure, Protection: Mass storage structures; Disk structure;	PPT	4.					
5.		Disk attachment; Disk scheduling; Disk management;	РРТ	5.					
6.		Protection: Goals of protection,	PPT	6.					
7.		Principles of protection, Domain of protection, Access matrix.	PPT	7.					
8.		Revision, Module End Question discussion, Quiz	myQu iz App	8.					

	Activity	Planned	Actual	Remarks	
1	Theory Classes	40			
2	Assignments/ Quizzes/ Self-study	-			
3	Tutorials/ Extra classes	-			
4	Internal Assessments	3			
5	ICT based Teaching (% of usage in Curriculum)	100			
	Planning		Execution		
Faculty S	ignature:		Faculty Signature:		
HoD Sign	aature:		HoD Signature:		