

Course with Code: Operating System –BCS303				Faculty:			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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MODULE-2								
1.		Process Management: Process concept; Process scheduling,	PPT	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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MODULE-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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MODULE-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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MODULE-5								
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;	PPT	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	myQuiz App	8.				

	Activity	Planned	Actual	Remarks
1	Theory Classes	44		
2	Assignments/ Quizzes/ Self-study	5		
3	Tutorials/ Extra classes	4		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	100		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	