## SUBJECT: UNDERGRADUATE COURSE CURRICULUM2024-25

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Pr	Course Code		ourse	Class: B. Sc. Semester-V		Session	1:2024-2025
2		urse Title	CSSC-5T				
3			Operating System				
4	Pre-requisite(if,any)		Discipline Specific Course (DSC)				-
5	Course Learning. Outcomes (CLO)		As per Government norms / Institutional scheme  After completion of this course, the students will be able to:  To understand design issues related to process management and various related algorithms.  To understand design issues related to memory management.  To understand design issues related to File management.  To understand design issues related to process management.				
6	Credit Value 04(03 Theory & 01 Practical)					managem	ient
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-		tal Marks	-	Aarks: 100	Min Pas	Min Passing Marks:	
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	Total No. of Teaching-learning - Hours- 45						No. of
U	nit Topics (Course contents)						Hours
	Introduction: Definition, Basic functions of Operating System, Types of Operating Systems: Batch, Time Sharing, Multiprogramming, Real Time systems. Multiprocessing, Concepts of processes, Process state, Process Control Block, Process Scheduling Criteria, Scheduling Algorithms, schedulers.  Deadlock: Necessary Conditions, Deadlock Characterization, Methods for handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Bankers Algorithm,						
		Batch, Time Shar Concepts of proce Criteria, Schedulin Deadlock: Necessary Condi	ing, Mult esses, Pro- ing Algorit itions, D	iprogramming, Real Time s cess state, Process Control B hms, schedulers.	systems. Multip block, Process S Methods for	Scheduling handling	12
		Batch, Time Shar Concepts of proce Criteria, Schedulin Deadlock: Necessary Condi Deadlocks, Deadlocks	ing, Multisses, Proof og Algorit itions, D lock Pres on, Reco	iprogramming, Real Time s cess state, Process Control B hms, schedulers.	Methods for ice, Bankers	brocessing, Scheduling handling Algorithm,	12
	ц	Batch, Time Shar Concepts of proce Criteria, Schedulin Deadlock: Necessary Condi Deadlocks, Deadl Deadlock Detecti Deadlock Ignorance Memory Managem Logical and Physics	ing, Multisses, Proc og Algorit itions, D lock Prev on, Reco ce.	eadlock Characterization, vention, Deadlock Avoidan very from Deadlock, Research, Contiguous and Non-contiguous and Non-contigu	Methods for ice, Bankers a ource Allocation	handling Algorithm, on Graph.	12

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