

School of Computer Applications

Teaching Plan Odd Semester Session (2024-2025)

Class: PGDCA -1st Semester Subject: Operating System Course Code: DCS 103 Name of the Teacher: Prof. Sushil Kumar Period: 3rd (11:30AM-12:10PM) Room No: PGDCA

S. No	Aims to be	Topics to be covered
	completed	
	10-08-2024	Orientation and introduction about the subject
	12-08-2024	Introduction: Definition Of The Operating System, Functions Of An
	to	Operating System, Different Types Of Systems - Simple Batch System
Week 1	17-08-2024	
Week 2	19-08-2024	Multi-Programmed Batched System, Time Sharing System, Personal
	to	Computer Systems, Parallel Systems, Distributed Systems, Real Time
	24-08-2024	Systems
Week 3	26-08-2024	Process Management: Process- Process Concept, Process Scheduling,
	to	Operation On Processes
	31-08-2024	*
Week 4	02-09-2024	Cooperating Processes, Threads, Inter-Process Communication, CPU
	to	Scheduling–scheduling criteria, scheduling algorithms – FCFS, SJF,
	07-09-2024	priority scheduling
Week 5	09-09-2024	Round robin scheduling, multilevel queue scheduling, multilevel feedback
	to	queue scheduling, multiple processor scheduling, real time scheduling
	04-09-2024	
Week 6	16-09-2024	Deadlocks: Deadlock Characterization, Methods For Handling Deadlocks,
	to	Deadlock Prevention
	21-09-2024	
Week 7	23-09-2024	Deadlock Avoidance, Deadlock Detection, Recovery From Deadlock
	to	
	28-09-2024	
Week 8	30-09-2024	Memory Management: Logical & physical address space, Swapping,
	to	Continuous Allocation (single partition, multiple partition), internal,
	05-10-2024	external fragmentation
Week 9	07-10-2024	Paging, Segmentation, Segmentation With Paging, Virtual Memory,
	to	Demand Paging, Performance Of Demand Paging
	12-10-2024	
Week 10	14-10-2024	Page Replacement, Page Replacement Algorithms-FIFO, optimal, LRU,
	to 19-10-2024	LRU approximation algorithms, counting algorithms Thrashing, Demand

		Segmentation
Week 11	21-10-2024 to 28-10-2024	File System Interface: File Concept, Access Methods–sequential, direct, index
Week 12	29-10-2024 to 02-11-2024	Diwali Break
Week 13	04-11-2024 to 09-11-2024	Directory Structure-single-level, two-level, tree-structured, acyclic-graph, general graph
Week 14	11-11-2024 To 16-11-2024	File System Implementation: File System Structure, Allocation Methods contiguous allocation, linked allocation, indexed allocation, Secondary Storage Structure: Disk Structure
Week 15	18-11-2024 To 23-11-2024	Disk Scheduling, FCFS, SSTF, SCAN, C-SCAN, Look Scheduling, Selection of A Scheduling Algorithm, Disk Management-disk formatting, boot block, bad blocks
Week 16	25-11-2024 To 30-11-2024	Revision round and overview of entire syllabus of Operating System