

Government Polytechnic Sundernagar

Lesson Plan for the Session August- January 2023

Subject Name : **Operating System**

Subject Teacher: **Rigzin Angmo**

Sr no	Month	Week	Date	Name of Chapter	Contents to be taught	Remarks
1	September	1	01-09-2022	Introduction to operating system	Definition of Operating system, its Goal, Functions of OS	
4		2	05-09-2022		Evolution of OS: early OS, Simple batch systems	
5			06-09-2022		Evolution of OS: Multiprogrammed batch systems, Timesharing systems	
			07-09-2022		Single user OS, Multiuser OS	
6			08-09-2022		Closed and open source OS	
7			3		12-09-2022	Definition of process, process states
8		13-09-2022		Process life cycle		
9		14-09-2022		Process Control Block (PCB),		
10		15-09-2022		Process Scheduling - Scheduling queues, Schedulers (short term, medium term and long term)		
11		19-09-2022		Dispatcher, Context Switch		
12		4	20-09-2022	CPU Scheduler, preemptive and non-preemptive scheduling		
			21-09-2022	Scheduling criteria - CPU utilization, Throughput, Turnaround time		

13		22-09-2022		Scheduling criteria - Waiting time, Response time		
15		26-09-2022	CPU Scheduling	Scheduling Algorithms: First-Come-First-Serve		
16	5	27-09-2022		examples of First-Come-First-Serve		
17		28-09-2022		Shortest-Job-First with examples		
18		29-09-2022		Priority Scheduling with examples		
19		6		03-10-2022	Round-Robin with examples	
			04-10-2022	Normal mode of operation - Request-Use-Release sequence		
20	06-10-2022		Definition of deadlock, Deadlock Characterization, Necessary			
21	7	10-10-2022	sufficient conditions - Mutual exclusion, Hold and wait			
22		11-10-2022	sufficient conditions -No preemption and Circular wait.			
		12-10-2022	Class test 1			
24	October	8	Introduction to Deadlocks	Deadlock handling methods: Deadlock ignorance, Deadlock prevention		
25				18-10-2022	Deadlock handling methods: Deadlock avoidance	
26				19-10-2022	Deadlock handling methods: Deadlock detection and recovery	
27				20-10-2022	Definition of memory management, Memory management Techniques	

		26-10-2022		Fixed partitioning, dynamic partitioning		
29		27-10-2022		memory fragmentation, simple paging, simple segmentation		
30		10	31-10-2022	Memory Management Techniques	virtual memory with paging, virtual memory with segmentation	
32	November	10	01-11-2022		page fault, thrashing	
33			02-11-2022		Introduction to Page replacement policies: FIFO and its examples	
34			03-11-2022		Optimal with examples	
35		11	07-11-2022	LRU with examples		
			09-11-2022	Class test 2		
37			10-11-2022	File concept - file attributes, file operations,		
38		12	14-11-2022	file types		
39			15-11-2022	Access Methods - Sequential access		
40			16-11-2022	Storage Management	Access Methods -direct access	
41			17-11-2022		Directory Structure - directory overview, single-level directory	
42	21-11-2022		Directory Structure - Two-level directory			
43	13	22-11-2022	Directory Structure - Treestructured directories.			
		23-11-2022	House Test (Tentative)			

44	December		24-11-2022		House Test (Tentative)				
		14		28-11-2022		House Test (Tentative)			
				29-11-2022		House Test (Tentative)			
				30-11-2022	Storage Management		Introduction to Disk Storage Access ways		
46			14	01-12-2022			Host-Attached Storage		
49		15		05-12-2022			Network-Attached Storage		
50				06-12-2022			Storage Area Network.		
				07-12-2022			Introduction to Disk scheduling- FCFS, SSTF, SCAN, C-SCAN		
51				08-12-2022			Disk scheduling - FCFS		
52			16			12-12-2022		Examples of FCFS	
53						13-12-2022		Disk scheduling - SSTF	
54				14-12-2022			Examples of SSTF		
55				15-12-2022			Examples of C-SCAN		
		17				19-12-2022		Revision	
			20-12-2022			Revision			

Subject Teacher

H.O.D
Computer Engg