		LESSON PLAN					
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Subject: - OPERATING SYSTEM (BCA 4TH Semester C) BCA-402							
		Faculty Name: - Mr. kamal nain					
S. no	D ay	Topic/Presentation /Activity	Reference (Book Page No.)				
	Unit-I (Introduction to Data Structure and its Characteristics Array)						
1	D	Introduction of operating system (L1)					
	1						
2	D 2	Simple Batch Systems (L2)					
3	D	Multi- programmed Batch system (L3)					
4	3 D	Tutorial 1 (L1+L2+L3) Activity: Think, pair and share	Think nois				
4	4	Tutorial I (LI+L2+L3) Activity. Think, pair and share	Think, pair and share				
5	D 5	Time- Sharing Systems, Personal- Computer Systems, Tri diagonal matrices with Vector Representation also, Parallel systems, Distributed systems (L4)					
6	D 6	Real- Time Systems. Memory Management: Background, Logical versus physical Address space, Swapping, Contiguous allocation, Paging, Segmentation Virtual Memory (L-5)					
7	D 7	Demand Paging, Page Replacement, Page- replacement Algorithms, Performance of Demand Paging.(L-6)					
8	D 8	Tutorial 2 (L4+L5+L6)	Problems Discussion/Pr esentation				
		Unit-2 (Processes)					
9	D 9	Process Concept, Process Scheduling, Operation on Processes (L-7)					
10	D 10	Operation on Processes (L-8)					
11	D 11	Process Scheduling, Operation on Processes, Scheduling Criteria. (L-9)					
12	D 12	Tutorial 3 (L7+L8+L9) Activity: Buzz session	Buzz session				
13	D 13	Scheduling Criteria, Scheduling Algorithms, Multiple - Processor Scheduling. (L-10)					

14	D	Background, The Critical - Section Problem,					
	14	Synchronization Hardware, Semaphores (L-11)					
15	D	Classical Problems of Synchronization (L-12)					
	15						
16	D	Tutorial 4 (L10+L11+L12) Activity: Buzz session	Buzz session				
	16	, , , , , , , , , , , , , , , , , , ,					
	Unit - 3 Deadlocks						
17	D	System Model(L13)					
'	17	- ,					
18	D D	Deadlock Characterization (L14)					
10	18	Deducer characterization (E11)					
19	D	Methods for Handling Deadlocks (L-15)					
19	_	Wethous for Handling Deadlocks (L-13)					
20	19	Tratorial 5 (I 12 I 14 I 15) A stiritor Crown Discussion					
20	D 20	Tutorial 5 (L13 +L14+L15) Activity: Group Discussion on Problems					
21	D	Deadlock prevention (L-16)					
	21						
22	D	Deadlock Avoidance, Deadlock Detection (L-17)					
	22						
$\perp 23$	D	Recovery from Deadlock. (L-18)					
23	D 23	Recovery from Deadlock. (L-18)					
	23		Problems				
23	23 D	Recovery from Deadlock. (L-18) Tutorial 6 (L16+L17+L18) Activity: Group Discussion on Problems	Problems Discussion/Pr				
	23	Tutorial 6 (L16+L17+L18) Activity: Group Discussion	Discussion/Pr				
	23 D	Tutorial 6 (L16+L17+L18) Activity: Group Discussion on Problems					
24	23 D 24	Tutorial 6 (L16+L17+L18) Activity: Group Discussion on Problems UNIT-4 (Device Management)	Discussion/Pr				
24	23 D 24 D	Tutorial 6 (L16+L17+L18) Activity: Group Discussion on Problems	Discussion/Pr				
24	23 D 24 D 25	Tutorial 6 (L16+L17+L18) Activity: Group Discussion on Problems UNIT-4 (Device Management) Dedicated Devices (L19)	Discussion/Pr				
24	23 D 24 D 25 D	Tutorial 6 (L16+L17+L18) Activity: Group Discussion on Problems UNIT-4 (Device Management)	Discussion/Pr				
24 25 26	23 D 24 D 25 D 26	Tutorial 6 (L16+L17+L18) Activity: Group Discussion on Problems UNIT-4 (Device Management) Dedicated Devices (L19) Shared Devices, Virtual Devices; (L20)	Discussion/Pr				
24	D 24 D 25 D 26 D	Tutorial 6 (L16+L17+L18) Activity: Group Discussion on Problems UNIT-4 (Device Management) Dedicated Devices (L19)	Discussion/Pr				
24 25 26 27	D 24 D 25 D 26 D 27	Tutorial 6 (L16+L17+L18) Activity: Group Discussion on Problems UNIT-4 (Device Management) Dedicated Devices (L19) Shared Devices, Virtual Devices; (L20) Input or Output Devices, Storage Devices (L21)	Discussion/Pr esentation				
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24 25 26 27 28	D 24 D 25 D 26 D 27 D 28	Tutorial 6 (L16+L17+L18) Activity: Group Discussion on Problems UNIT-4 (Device Management) Dedicated Devices (L19) Shared Devices, Virtual Devices; (L20) Input or Output Devices, Storage Devices (L21) Tutorial 7 (L19+L20+L21) Activity: Oral Test	Discussion/Pr esentation				
24 25 26 27	D 24 D 25 D 26 D 27 D 28 D	Tutorial 6 (L16+L17+L18) Activity: Group Discussion on Problems UNIT-4 (Device Management) Dedicated Devices (L19) Shared Devices, Virtual Devices; (L20) Input or Output Devices, Storage Devices (L21)	Discussion/Pr esentation				
24 25 26 27 28 29	D 24 D 25 D 26 D 27 D 28 D 29	Tutorial 6 (L16+L17+L18) Activity: Group Discussion on Problems UNIT-4 (Device Management) Dedicated Devices (L19) Shared Devices, Virtual Devices; (L20) Input or Output Devices, Storage Devices (L21) Tutorial 7 (L19+L20+L21) Activity: Oral Test Buffering, Secondary Storage (L22)	Discussion/Pr esentation				
24 25 26 27 28	D 24 D 25 D 26 D 27 D 28 D 29 D	Tutorial 6 (L16+L17+L18) Activity: Group Discussion on Problems UNIT-4 (Device Management) Dedicated Devices (L19) Shared Devices, Virtual Devices; (L20) Input or Output Devices, Storage Devices (L21) Tutorial 7 (L19+L20+L21) Activity: Oral Test	Discussion/Pr esentation				
24 25 26 27 28 29 30	D 24 D 25 D 26 D 27 D 28 D 29	Tutorial 6 (L16+L17+L18) Activity: Group Discussion on Problems UNIT-4 (Device Management) Dedicated Devices (L19) Shared Devices, Virtual Devices; (L20) Input or Output Devices, Storage Devices (L21) Tutorial 7 (L19+L20+L21) Activity: Oral Test Buffering, Secondary Storage (L22)	Discussion/Pr esentation				
24 25 26 27 28 29	D 24 D 25 D 26 D 27 D 28 D 29 D 30	Tutorial 6 (L16+L17+L18) Activity: Group Discussion on Problems UNIT-4 (Device Management) Dedicated Devices (L19) Shared Devices, Virtual Devices; (L20) Input or Output Devices, Storage Devices (L21) Tutorial 7 (L19+L20+L21) Activity: Oral Test Buffering, Secondary Storage (L22) Disk Structure, Disk Scheduling (L23)	Discussion/Pr esentation				

32	D 32	Tutorial 8 (L22+L23+L24) Activity: Oral Test	Problems Discussion/Pr esentation
	U		
33	D	General Model of a File System(L-25)	
	33		
34	D	Symbolic File System, Basic File System (L26)	
	34		
35	D	Access Control Verification, Logical File System (L27)	
	35		
36	D	Tutorial 9 (L25+L26+L27) Activity: Frequently Ask	Complete
	36	Questions	Syllabus
37	D	System Interface; File Concept, Access Methods, Directory	
	37	Structure, Protection (L28)	
38	D	Consistency Semantics File - System Implementation: File-	
	38	System Structure (L29)	
39	D	Allocation Methods, Free- Space Management(L-30)	
	39		
40	D	Tutorial 10 (L28+L29+30) + Completed Courses	Problems
	40	Revision	Discussion/Pr
			esentation

Referential Books:

1. Silbersachatz and Galvin, "Operating System Concepts", Person, 5th Ed. 2001

2. Madnick E., Donovan J., "Operating Systems Tests McC. Hill 2001 Systems:,Tata McGraw Hill,2001

3. Tannenbaum, "Operating Systems", PHI, 4th Edition, 2000