LESSON PLAN

Name of Facility	: Sanjeev Kumar
Discipline	: Computer Engineering
Semester	: 3rd
Subject	: Operating System

Week	Theory		Practical	
	Lecture Days	Topic (Include assignment /Test)	Prac tical Day	Торіс
1st	1	Overview of operating system	1st	
	2	Definition of operating system		Demonstratio
	3	Types of operating system	2nd	n of all the controls
	4	Operating system services		provided in window control panel.
2nd	5	User operating system interface	3rd	Exercise on basics of
	6	System calls System programs		window.
	7	Types of system calls		
	8	Operating system structure virtual machine	4th	
3rd	9	Process management (principles and brief concept)	5 th	
	10	Process concept, process state , process control block,		linux operating
	11	Scheduling queues scheduler, job scheduler,		system.
	12	Context switch, operating on process, Interprocess communication,	6th	
4th	13	Shared memory systems message- process system, cpu scheduler,	7th	Usage of directory
	14	Scheduling criteria, scheduling algorithms, pre- emptive and non pre-emptive.		management commands of linux: is , cd, pwd, rmdir,
	15	First Come First Serve (FCFS), Shortest Job First (SJF), round robin(RR), multiprocessor scheduling, process synchronization.	8th	
5th	16	Test	9th	Usage of file
	17	1 seasonal		management
	18	Deadlock,(principles and brief concept)	10th	commands of
	19	Deadlock, condition for dead lock, methods for handling deadlocks		línux: cat, chmod, cp, mv, pg, more, find
6th	20	Dead prevention, Deadlock avoidance,	11th	Use the gernal

	21	Deadlock avoidance, deadlock detection,		purpose
		Recovery from deadlock.		commands of
	22	Test	12th	linux: wc, od,
				lp, cal, date,
				who,
			1.04	whoami,.
7th	23	Memory management function (principles and brief	13 ^m	Using the
		concept) definition- logical and physical address		simple filters;
	24	space, swapping,		pr, nead, tail,
	24	Memory allocation, contiguous memory allocation,	1.441	cut, paste, m,
_	25	fixed and variable partition,	14th	son.
	26			
		Internal and external fragmention and compaction		
8th	27	Paging-principle of operation, page allocation,	15 th	Communicati
		Harware support for paging	_	on
	28	Protection and sharing		commands:
	20		-	new, write,
	29	Disadvantages of paging, segmentation,		talk, mseg,
	30	Virtual memory.	16th	mail, wall
9th	31	Revision	17 th	Write a shell
	32	Test		programme
	33	I/O Management funcation (principle and brief	18th	that finds the
		concept) dedicated devices, shared devices,		factorial of a
				number.
	34	I/O Devices,		
10th				
10th	35	Storage devices	19 th	Write a shell
10th	35 36	Storage devices Buffering, spooling	19 th	Write a shell programme
10th	35 36 37	Storage devices Buffering, spooling Revision	19 th 20th	Write a shell programme that finds
10th	35 36 37	Storage devices Buffering, spooling Revision	19 th 20th	Write a shell programme that finds whether a
10th	35 36 37 38	Storage devices Buffering, spooling Revision Test	19 th 20th	Write a shell programme that finds whether a given number
10th	35 36 37 38	Storage devices Buffering, spooling Revision Test	19 th 20th	Write a shell programme that finds whether a given number is prime or
10th	35 36 37 38	Storage devices Buffering, spooling Revision Test	19 th 20th	Write a shell programme that finds whether a given number is prime or not.
10th	35 36 37 38 39	Storage devices Buffering, spooling Revision Test 2nd sessional File segment (spinole and brief segment)	19 th 20th 21st	Write a shell programme that finds whether a given number is prime or not. Write a shell programme to
10th	35 36 37 38 39 40	Storage devices Buffering, spooling Revision Test 2nd sessional File management (principles and brief concept)	19 th 20th 21st	Write a shell programme that finds whether a given number is prime or not. Write a shell programme to find the
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	50	Open Linux, Linux system requirements,	
14th	51	Linux commands and filters:	
	52	Mk dir cd, rmdir, pwd, is , who, whoami, date, cat,	
		chmod, cp, mv, rm, pg, more, pr, tail, hesd, cut,	
	53	paste, nl, grep, we, sort, kill, write, talk, mseg, wall,	
		merge, mail, news	
	54	Shell: concept of command options, input, output,	
		redirection, pipes	
15th	55	Redirecting and piping with standard errors,	
	56	Revision	
	57	3 rd sessional	