Lesson Plan

Name of the Faculty:		Ms. Neha Garg
Discipline:		BCA
Semester:		2nd
Subject:		Operating System
WorkLoad(Lecture/Practical) perweek(Inhours):		Lecture-4

S.No.	Lecture No.	Theory	
		Topic(IncludingAssignment/Test/Quiz)	Pedagogy (PPT/Chalk and Board/Video Recording /Activity/Case Study)
1.	L1	Introduction to Operating System, Function & Characteristics	Chalk and Board
3.	L2	Historical evaluation, Operating System structure	Chalk and Board
4.	L3	Types of Operating System	Chalk and Board
6.	L4	Operating system services, interface	Chalk and Board
5.	L5	Service system calls, System program	Chalk and Board
6.	L6	Concept of process, Operation on Process	Chalk and Board
7.	L7	Process state, PCB	Chalk and Board, PPT
8.	L8	CPU Scheduling: Scheduling criteria, level of scheduling	Chalk and Board
9.	L9	Scheduling Algorithm	Chalk and Board
10.	L10	Revision of scheduling algorithms	Chalk and Board
11.	L11	Multiple process scheduling, Algorithm Evaluation	Chalk and

			Board
12.	L12	Synchronization: Critical Section Problem	Chalk and Board
13.	L13	Semaphore, Classical problem of synchronization	Chalk and Board
14.	L14	Monitors	Chalk and Board
15.	L15	Introduction of Deadlock	Chalk and Board
		Class Test	On Paper
16.	L16	Deadlock characterization	Chalk and Board
17.	L17	Methods of Handling Deadlock	Chalk and Board, PPT
18.	L18	Deadlock prevention	Chalk and Board
19.	L19	Deadlock Avoidance	Chalk and Board
20.	L20	Deadlock detection & Recovery	Chalk and Board , PPT
21.	L21	Memory Management for single user	Chalk and Board
22.	L22	Partitioning	Chalk and Board
23.	L23	Swapping	Chalk and Board
24.	L24	Contiguous Memory Allocation	Chalk and Board
25.	L25	Paging, Segmentation	Chalk and Board
26.	L26	Virtual Memory Management	Chalk and Board
27.	L27	Demand paging	Chalk and Board
28.	L28	Page replacement	Chalk and Board

29.	L29	Page replacement algorithm	Chalk and Board
30.	L30	Thrashing	Chalk and Board
31.	L31	Class Test	On Paper
32.	L32	File system structure	Chalk and Board, PPT
33.	L33	File system Implementation	Chalk and Board
34.	L34	File Operations	Chalk and Board
35.	L35	Types of Files	Chalk and Board
36.	L36	Directory implementation	Chalk and Board
37.	L37	Allocation Methods	Chalk and Board, PPT
38.	L38	Free Space Management	Chalk and Board
39.	L39	Disk Scheduling- SSTF	Chalk and Board
40.	L40	Scan, C-SCAN	Chalk and Board
41.	L41	LOOK, C-LOOK	Chalk and Board
42.	L42	SSD Management	Chalk and Board