lesson Plan

Name of the Faculty : Sh. S.P. Garg
Discipline : Computer Engg.
Semester : 3rd
Subject : Operating System
Lesson plan duration : 15 Weeks(July 2018 to Nov 2018)

Week	Theory		Practical	
	Lecture Day	Topic (including assignments /tests)	Practical Day	Topic
Week-1	1st	Unit:1 Introduction to system software	1st	Demonstration of all the controls provided on control panel
	2nd	Compiler(definition , why we use compiler , importance of it)		
	3rd	Assembler(object code , destination code , need of it) , Loader		
	4th	Difference between loader, assembler and compiler		
Week 2	1st	What is operating system and types of os	1st	Practice
	2nd	Main features of operating system		
	3rd	Importants of operating system , why we use our.		
	4th	Revision		
Week 3	1st	Mock Test	1st	ExercisesinvolvingvariousinternalandexternalDOScommands
	2nd	Unit:2 Brief introduction to ms- dos, windows and linux		
	3rd	Brief history of DOS and Windows		
	4th	Main features of DOS		
Week4	1st	Directory structure of DOS	1st	Practice
	2nd	File structure of DOS		
	3rd	Detail concept of DOS commands		
	4th	Introduction to windows and Linux.R		

Week		Topic		Practical
		Revision of unit 2		
Week 5	1st	Mock Test	1st	.Exercisesinvolvingofbasicsofwindows
	2nd	Unit: Overview of operating system- Definition of operating system and function of operating system		
	3rd	Types of operating system:- single user and multiuser		
	4th	Network operating system and Distributed operating system		
Week 6	1st	Storage structure:- I/O structure , Caching.	1st	Practice
	2nd	Class test		
	3rd	Revision of chapter		
	4th	Mock Test		
Week 7	1st	Unit:-4	1st	Exerciseonwindowoperatingsystem.
	2nd	4.1) process management function:- process scheduler , scheduling criteria		
	3rd	Scheduling algorithms , process synchronization		
	4th	Deadlocks- characterization , methods for handling deadlock		
	1st	Deadlock avoidance , banker's algorithm	1st	Practice
	2nd	Deadlock prevention , recover from deadlock.		
Week 08	3rd	Revision of chapter		
	4th	Assignment		

Week					
Week 09	1st	Test	1st	Exercisesonbasiccommandsof Linux operatingsystem.	
	2nd	4.2) Memory management function:- Introduction, single process system			
	3rd	Fixed partition memory , paging			
	4th	Segmentation , swaping			
Week 10	1st	Fragmentation , demand paging	1st	Practice	
	2nd	Virtual memory management			
	3rd	Assignment			
	4th	Test			
Week 11	1st	4.3) I/O management function	1st	Practice	
	2nd	Dedicated devices			
	3rd	Shared devices with example			
	4th	Simple problem on the above topic			

Week					
Week12	1st	I/O devices , storage devices	1st	Exercise on shell programming on linux	
	2nd	Buffering , spoofing			
	3rd	Revision of chapter			
	4th	Assignment			
Week 13	1st	4.4) File management :- file concept , file attributes	1st	Practice	
	2nd	Types of file and operation of files			
	3rd	Problem solved on above topics			
	4th	Access method of file			
Week 14	1st	Definition of file , types and brief concept of file	1st	Exerciseonshellprogrammingonlinux	
	2nd	Assignment			
	3rd	Directory structure and working of directory structure			

	4th	Free space management		
Week 15	1st	Details concept of FSM	1st	Practice
	2nd	Differentiate accessing methods of file.		
	3rd	Revision of unit 4		
	4th	Mock Test		