



ARSD College, University of Delhi

Model Course Handout/Lesson Plan

Course Name : B.Sc. (Hons.) Computer Science(LAB)						
Semester	Course Code	Course Title	Lecture (L)	Tutorial (T)	Practical (P)	Credit (C)
III	BHCS06	Operating system Discipline Specific Core Course - (DSC)			4	2
Teacher/Instructor(s)		Dr. Parul Jain				
Session		2022-23				

Course Description:

- Sessions to Create, delete, and synchronize processes for a small operating system.
- Sessions to Implement simple memory management techniques.
- Sessions to Implement CPU and disk scheduling algorithms.

List of Experiments:

Details of the Lab Course		
Session	Name of Experiment	Contact Hours
1	Write a program (using fork() and/or exec() commands) where parent and child execute: a) same program, same code. b) same program, different code. c) before terminating, the parent waits for the child to finish its task.	4
2	Write a program to report behaviour of Linux kernel including kernel version, CPU type and model. (CPU information)	4
3	Write a program to report behaviour of Linux kernel including information on 19 configured memory, amount of free and used memory. (memory information)	4
4	Write a program to print file details including owner access permissions, file access time, where file name is given as argument.	4
5	Write a program to copy files using system calls.	4
6	Write a program to implement FCFS scheduling algorithm.	4
7	Write a program to implement Round Robin scheduling algorithm.	4
8	Write a program to implement SJF scheduling algorithm.	4
9	Write a program to implement non-preemptive priority based scheduling algorithm.	4
10	Write a program to implement preemptive priority based scheduling algorithm.	4
11	Write a program to implement SRJF scheduling algorithm.	4
12	Write a program to calculate sum of n numbers using thread library.	4
13	Write a program to implement first-fit, best-fit and worst-fit allocation strategies.	12
Total		60

Evaluation Scheme:

No.	Component	Duration	Marks
1.	Internal Assessment		25
	• Quiz		
	• Class Test		
	• Attendance		
• Assignment			
2.	End Semester Examination	4 hrs	50

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