List of Assignments (Jan-Apr 2022)

<u>Subject</u> – Operating Systems Lab Course Code : CSL 403

<u>Class</u> – SE (Computer Engineering) Sem : IV

1. Explore the internal commands of linux like

LO₁

- 1. ls 2. Mkdir 3. chdir
- 4. rmdir 5. Cat 6. rm
- 7. mv 8. Cp 9. head
- 10. tail 11. Sort 12. wc
- 13. chown 14. Chmod 15. chgrp
- 16. umask 17. Ps 18. pipe
- 19. Redirection operators
- 20. Explore commands for following:
 - a. Display top 10 processes in descending order,
 - b. Display the process with highest memory usage,
 - c. Display current user logged in and logname,
 - d. Display current shell, home directory, operating system type, current path setting, current working directory,
 - e. Display OS version, release number, kernel version.

2. Write Shell Programs to

LO₁

- 1. Add 2 numbers
- 2. Check if a number entered is even and odd
- 3. Find sum of n numbers
- 4. Determine if a person is eligible to vote or not
- 5. Display all filenames beginning with character 'a' and displays its contents
- 6. Find Factorial of a number
- 7. Check validity of a username and password with a function defined in the code

3. Process Scheduling Algorithms	LO2
WAP to simulate Non Pre-emptive Priority Scheduling Policy	
4. Memory Allocation Techniques	LO4
Write programs to simulate the Bestt Fit Memory Allocation Technique	
5. Page Replacement Policies	LO5
WAP to simulate following LRU Page Replacement techniques	
6. Write a program to simulate Paging technique	LO5
7. Write a program to implement the SSTF Disk Scheduling Policiy	LO6
8. Write a program to implement the following SCAN Disk Scheduling Policy	LO6
9. WAP to simulate Bankers Algorithm	LO3
10. Write program to simulate Linked File Allocation Technique	LO6
11. Written Assignment 1	LO6
Topic: File Management	
1. Explain all File Organization techniques with one example for each	
2. Explain File Allocation Techniques with one example and advantage disadvantages of each technique	s and
12. Written Assignment 2	LO1
Topic : Mobile OS	
Explain the following points	
1. What is Mobile OS ??	
2. Explain features of IOS and Android OS	
3. Mention differences and similarities between Android OS and IOS	