UNIX AND OPERATING SYSTEMS LAB

COURSE CODE: 20CA3113 **L T P C**

1 0 3 2.5

COURSE OUTCOMES:

At the end of the course student will be able to

CO1: Create simple Shell Scripts based on Shell commands.

CO2: Identify the File that is executable, readable & writable using Shell Script.

CO3: Develop programs that display directory path, date and terminal name.

CO4: Create C Programs for developing FCFS and FIFO algorithms.

CO5: Execute Priority and Resource Request algorithms at Shell prompt.

EXPERIMENTS:

1. Write a shell script to accept two numbers and perform all arithmetic operations on it.
2. Write a shell script to find largest of three numbers using conditional execution operators
3. Write a shell script to accept the name of the file from standard input and perform the following tests on it
   a) File executable
   b) File readable
   c) File writable
   d) Both readable & writable
4. Write a shell script which will display the username and terminal name who is login recently in to the Unix system.
5. Write a shell script to find number of files in a directory
6. Write a shell script to print the following format

   1
   12
   123
   1234
   …….
7. Write a shell script which will display the number of days in the given month and year
8. Write a shell script to check whether a given number is perfect number or not
9. Write a shell script for concatenation of two strings using arguments
10. Write a shell script to demonstrate break and continue statements
11. Write a shell script to satisfy the following menu options
    a. Display current directory path
    b. Display today's
    c. Display users who are connected to the Unix system
    d. Quit
12. Write a shell script to delete all files whose size is zero bytes from current directory
13. Write a shell script to display reverse numbers from given argument list
14. Write a shell script to display factorial value from given argument list
15. Write a shell script which will greet you "Good Morning", "Good Afternoon", "Good Evening" and "Good Night" according to current time
16. To implement the FCFS Algorithm
17. To implement the Shortest Job First Algorithm

18. To implement Priority Algorithm
19. To implement the round robin Algorithm
20. To implement the FIFO page replacement Algorithm
21. To implement LRU page replacement Algorithm
22. To implement Resource Request Algorithm
23. To implement First-Fit, Best-Fitand Worst-Fit Algorithm
24. To implement Sequential File Organization
25. To implement Random File Organization.