

CSLR42 - Operating Systems Lab

Course Code	:	CSLR42
Course Title	:	Operating Systems Lab
Number of Credits	:	0-0-3-2
Pre-requisites(Course Code)	:	_____
Course Type	:	PL

Course Objectives

- To understand the concept of Operating System
- To have insight knowledge on different system calls and Unix Utilities
- To experience the practical side of the functioning of various blocks in OS
- To design a real world application by considering process synchronization, Memory management

Exercises

- 1.Hands on Unix Commands.
- 2.Shell programming for file handling.
- 3.Shell Script programming using the commands grep, awk, and sed.
- 4.Programs on Multithread using Pthread.
- 5.Implementation of CPU scheduling algorithms.
- 6.Implementation of Synchronization problems using Semaphores, Message Queues and Shared Memory.
- 7.Implementation of Memory Management -Allocation, Placement and replacement Algorithms.
- 8.Implementation of various Disk scheduling algorithms.

Course Outcomes

Upon completion of the course, the students will be able to:

- Write program on shell script and Pthread
- Solve synchronization problems
- Compare and contrast various CPU scheduling algorithms, Memory allocation policy

1. Silbersche

- ## Reference Books

1. Dobrow, A. Forrester,

[illegible]