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CS8461 OPERATING SYSTEMS LABORATORY

DETAILED SYLLABUS

OBJECTIVES

- To learn Unix commands and shell programming
- To implement various CPU Scheduling Algorithms
- To implement Process Creation and Inter Process Communication.
- To implement Deadlock Avoidance and Deadlock Detection Algorithms
- To implement Page Replacement Algorithms
- To implement File Organization and File Allocation Strategies

LIST OF EXPERIMENTS

- 1. Basics of UNIX commands
- 2. Write programs using the following system calls of UNIX operating system fork, exec, getpid, exit, wait, close, stat, opendir, readdir
- 3. Write C programs to simulate UNIX commands like cp, ls, grep, etc.
- 4. Shell Programming
- 5. Write C programs to implement the various CPU Scheduling Algorithms
- 6. Implementation of Semaphores
- 7. Implementation of Shared memory and IPC
- 8. Bankers Algorithm for Deadlock Avoidance
- 9. Implementation of Deadlock Detection Algorithm
- 10. Write C program to implement Threading & Synchronization Applications
- 11. Implementation of the following Memory Allocation Methods for fixed partition
 - b) Worst Fit a) First Fit c) Best Fit
- 12. Implementation of Paging Technique of Memory Management
- 13. Implementation of the following Page Replacement Algorithms
 - a) FIFO b) LRU c) LFU
- 14. Implementation of the various File Organization Techniques
- 15. Implementation of the following File Allocation Strategies
 - a) Sequential b) Indexed c) Linked