

Operating Systems Lab

List of Experiments

S.No	Name of the Experiment	Duration (Weeks)
1	Write C-programs for Unix ls, rm, cat, ps, kill, wc commands	1
2	Implement a minimal command interpreter with support for I/O redirection features.	1
3	Using pthreads library implement solutions for any four classical IPC problems. Also solve those problems using System V IPC facilities.	2+2
4	Create your own thread library, which has the features of pthread library by using appropriate system calls (UContext related calls). Containing functionality for creation, termination of threads with simple round robin scheduling algorithm and synchronization features.	2
5	Implement all CPU Scheduling Algorithms using your thread library	1
6	Implement deadlock avoidance, detection algorithms and Page replacement algorithms using System V IPC facilities.	1+1
7	Term Project: Explore the given Tiny OS and add support for any one additional file system and/or any one additional device driver.	3

Method of Evaluation	
Internal	
• Submission of assignments in time	15%
• Term project	10%
• Midterm exam	25%
• Viva-voce	10%
End Exam	40%