

10B17CI571: Operating Systems Lab

Course Credit: 1

Semester: V

Objective:

To study about Processes, Threads, Scheduling, Resource allocation, Memory management and File Management Concepts

Learning Outcomes:

- Be able to create sockets and analyze different (client/server) models.
- Be able to create processes, threads, semaphores.
- Be able to analyze different protocols.
- Be able to learn how resources are being managed in Operating system.
- Be able to manage system memory

List of Experiments

S NO	Topics
1	Introduction to Processes
2	Process Synchronization
3	Process Scheduling
4	Thread Management
5	Communication of Client Server Systems,Pthreads
6	CPU Scheduling, Process Synchronization
7	Semaphores. Critical Regions
8	Deadlock Prevention
9	Deadlock avoidance
10	Swapping
11	Virtual Memory ,
12	Page Replacement Algorithms

References

1. Operating System Concepts by Silberschatz and Galvin
2. Operating System :Design and Implementation by Tanenbaum ,S.A Woodhull
3. Operating System:Internals and Design Principles by W. Stallings

Evaluation Scheme:

1. Mid Term Exam (Viva and Written Exam)	20
2. End term Exam (Viva and Written Exam)	30
3. Lab Records	5
4. Regular Assessment (Quality and quantity of experiment performed, Learning laboratory skills, Attendance etc.)	30
5. Project	15

Total	100
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