SSN COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
LAB PLAN

SUBJECT NAME   : **OPERATING SYSTEMS LAB**
SUBJECT CODE   : **CS6413**
DEGREE / YEAR/ SECTIONS : **B.E. CSE / II YEAR/ A & B**
BATCH   : **2016-2020**
SEMESTER   : **IV (2017-18: EVEN)**
NAME OF THE STAFF   : **S.RAJALAKSHMI & S.LAKSHMI PRIYA**

Physical lab: Software Engineering Lab & System Programming Lab

S. NO.	LIST OF EXPERIMENTS	NO. OF PRACTICAL SESSIONS (3 hrs)		REMARKS
		PLAN	ACTUAL	
1.	Study of System Calls & System Commands (fork, exec, getpid, getppid, exit, wait, close, opendir, readdir, open, read, write , creat, sleep, pipe) & (cp, mv, ls, grep, chmod, cat, mkdir, rm, rmdir, wc, who, pipe (pipe symbol), head, tail, nl,awk)	1		
2.	Implementation of commands using system calls (cp, ls, grep)	1		
3.	Shell Programming	1		
4.	Simulation of scheduling policies : a. FCFS b. SJF	1		
5.	Simulation of scheduling policies : a. Priority b. Round robin	2		
6.	Developing Application using Inter Process communication using shared memory	1		

S. NO.	LIST OF EXPERIMENTS	NO. OF PRACTICAL SESSIONS (3 hrs)		REMARKS
		PLAN	ACTUAL	
7.	Implementation of the Producer – Consumer problem using semaphores	1		
8.	Simulate Bankers Algorithm for Deadlock Avoidance.	1		
9.	Implementation of Deadlock Detection	1		
10.	Implementation of LRU , FIFO , Optimal, LFU page replacement schemes	1		
11.	Implementation of Paging technique	1		
12.	Implementation of file allocation technique (Sequential , Indexed, Linked)	1		
13.	Implementation of file organization techniques (Single level directory b) Two level c) Hierarchical d) DAG)	1		
14.	Application using threads and synchronization	1		
Total		**15**		

PREPARED BY   APPROVED BY
(**S.RAJALAKSHMI & S.LAKSHMI PRIYA**)   **Dr.CHITRA BABU**
                                                                                HOD-CSE