NAME OF THE PROGRAM: *CSE*	**DEGREE:** *B.Tech*
COURSE NAME: *Operating System*	**SEMESTER:** *5th*
COURSE CODE: *PCC-CS592*	**COURSE CREDIT:** *2*
COURSE TYPE: *LAB*	**CONTACT HOURS:** *4P*

SYLLABUS

1. Shell programming [6P]: creating a script, making a script executable, shell syntax (variables, conditions, control structures, functions, commands).

2. Process [6P]: starting new process, replacing a process image, duplicating a process image, waiting for a process, zombie process.

3. Signal [9P]: signal handling, sending signals, signal interface, signal sets.

4. Semaphore [6P]: programming with semaphores (use functions semctl, semget, semop, set_semvalue, del_semvalue, semaphore_p, semaphore_v).

5. POSIX Threads [9P]: programming with pthread functions (viz. pthread_create, pthread_join, pthread_exit, pthread_attr_init, pthread_cancel)

6. Inter-process communication [9P]: pipes (use functions pipe, popen, pclose), named pipes(FIFOs, accessing FIFO)