Savitribai Phule Pune University

T.Y.B.Sc. (Computer Science) - Sem - V

Course Type: DSEC - I Course Code: CS - 357

Course Title : Practical Course based on CS - 351

Teaching Scheme:	No. of Credits:	Examination Scheme:
5 Lect/ week	2	IE : 15 marks UE: 35 marks

Course Objectives:

1. To understand the concept of process scheduling with the help of simulation.
2. To study the concept demand paging concepts in operating system.
3. To understand the working of operating system shell.

Course Outcomes: After completion of this course students will be able to understand the concept of

1. Process synchronization
2. Processes and Thread Scheduling by operating system
3. Memory management by operating system using with the help of various schemes

Guidelines:

1. Operating system platform – Linux
2. Programming language - C

List of Assignments:

- Operations on processes : (2 slot)
  (Create a child process using fork() and commands like exec(),execv() and execvp())
- Simulation of Operating System Shell and its working (commands)(2 slots)
- Simulation of CPU Scheduling Algorithms – FCFS, SJF, Priority and Round Robin(4 slots)
- Simulation of demand paging using memory page replacement algorithms – FIFO, LRU, OPT, MFU(4 slots)