

*Syllabus* : Process Management: process, thread, scheduling; Concurrency: mutual exclusion, synchronization, semaphores, deadlocks; Memory Management: allocation, protection, hardware support, paging, segmentation; Virtual Memory: demand paging, allocation, replacement, swapping, segmentation, TLBs; File Management: naming, file operations and their implementation; File Systems: allocation, free space management, directory management, mounting; I/O Management: device drivers, disk scheduling.

*Texts* :

1. Silberschatz, A. and Galvin, P. B. Operating System Concepts. 8/e. Wiley, 2008.

*References* :

1. Stalling, W. Operating Systems: Internals and Design Principles. 6/e. Pearson, 2008.

2. Tanenbaum, A. S. Modern Operating System. 3/e. Pearson, 2007.

3. Dhamdhere, D. M. Operating SystemsA Concept Based Approach, McGrawHill, 2008