

*Syllabus* : Programs on the use of pthread library, process creation, shared memory, message queues, semaphores in Unix/Linux using simple examples, Development of user-level modules for memory management, file caching etc. Programming assignments to build parts of an OS kernel. Use of a teaching package such as Nachos, Pintos.

*Texts* :

1. Tanenbaum, A. S. Modern Operating System. 3/e. Pearson, 2007.
2. Dhamdhere, D. M. Operating Systems A Concept Based Approach, McGrawHill, 2008
3. Reference manuals for Nachos and Pintos.