

CS503 COMPUTER SYSTEMS AND NETWORKS 3-0-0-6

Pre-requisites :

Syllabus : Review of concepts of operating systems: Processes, threads, interprocess communication, scheduling, memory management. Review of concepts of computer networks: link layer protocols, local area networks (Ethernet and variants), interconnecting networks with IP, routing, transport layer protocols. Advanced concepts of distributed networked systems: Virtualization, distributed file systems, mass storage systems, recovery and fault tolerance, content networking including multimedia delivery.

Texts :

1. A. Silberschatz, P. B. Galvin and G. Gagne, Operating System Concepts, 7th Ed, John Wiley and Sons, 2004.
2. J. Kurose and K. W. Ross, Computer Networking: A Top down approach, 3rd Ed, Pearson India, 2004.
3. M. Singhal and N. Shivratri, Advanced Concepts in Operating Systems, McGraw Hill, 1994.
4. A. S. Tanenbaum and Van Steen, Distributed Systems: Principles and Paradigms, Prentice Hall India, 2007.