***SUBJECT NO-CS31702, SUBJECT NAME- COMPUTER ARCHITECTURE AND OPERATING SYSTEM***

***LTP- 4-0-0,CRD- 4***

**SYLLABUS :-**

**Architecture: Basic organization, fetch-decode-execute cycle, data path and control path, instruction set architecture, I/O subsystems, interrupts, memory hierarchy, overview of pipelined architectureOperating systems: An overview, process management, user and supervisor modes, process synchronization, semaphores, memory management, virtual memory, file systems, I/O systems.Issues in multiprocessing environments.References1.David A. Patterson and John L. Hennessy, Computer Organization and Design: The Hardware/Software Interface, Elsevier.2.Carl Hamachar, Zvonco Vranesic and Safwat Zaky, Computer Organization, McGraw-Hill.3.John P. Hayes, Computer Architecture and Organization, McGraw-Hill.4.Avi Silberschatz, Peter Galvin, Greg Gagne, Operating System Concepts, Wiley Asia Student Edition.5.William Stallings, Operating Systems: Internals and Design Principles, Prentice Hall of India.**