

Approval: OTA in 4th Convocation Meeting

Course Name: Advanced Computer Architecture

Course Code: CS 507

Credit: 3-0-0-3

Category:

Prerequisites:

Course Outline:

Advanced processor design: CPU pipelining, Datapath and Control Design, Data and Control Hazards: Instruction level parallelism, Dynamic scheduling of instructions, Branch Prediction and Speculation – From reference book and papers. VLIW, Multithreading, and Network processor architectures – From papers, Basic multiprocessor design : Shared memory and message passing: Network topologies.