

MC722: Computer Architecture

Prerequisite: MC404

Description:

An introduction to architecture and organization of computers. Technologies and historical perspective. Performance measures. Instruction sets. Memory. Arithmetic logic units. Basic design of a processor. Pipeline. Memory hierarchy: cache and virtual memory. Input/Output devices.

Programme:

1. An introduction to architecture and organization of computers
2. Performance measures
3. Instruction sets
4. Memory
5. Arithmetic logic units
6. Basic design of a processor
7. Pipeline
8. Memory hierarchy: cache and virtual memory
9. Input/Output devices
10. Parallel Processing

Recommended Literature:

- I. David A. Patterson & John L. Hennessy. Computer Organization & Design, The Hardware/Software Interface. Morgan Kaufmann