

ARCHITECTURES NUMÉRIQUES DE TRAITEMENT DE L'INFORMATION DIGITAL ARCHITECTURES FOR COMPUTING AND INFORMATION PROCESSING

Lecturers: Ian O CONNOR

| Lecturers : 18 | TC : 10.0 | PW : 8.0 | Autonomy : 12 | Study : 0.0 | Project : 0.0 | Language : MI

Objectives

This course aims to study the hardware operation of digital electronic architectures for computing and information processing. It presents the components that are systematically present in digital architectures: control, data path and memory. The first part of the course will analyze the internal architecture of processors and the way in which they execute software instructions. The second part will focus on how (through the organization of the components) it is possible to improve the performance of the processor.

Keywords : Processors, datapath, software instructions, memory, pipeline architectures, cache memory

