

Architecture des Ordinateurs



Component
École Nationale
Supérieure
d'Électrotechnique
d'Électronique
d'Informatique
d'Hydraulique
et des
Télécommunications

In brief

➤ **Code:** N5EN03A

Presentation

Objectives

- master a hardware description language
- know how to analyze and design a combinatorial logic or arithmetic circuit
- know how to analyze and design a synchronous sequential circuit
- know how to realize a wired algorithm with a sequential circuit

Description

- introduction to Boolean logic
- introduction to binary arithmetic: 2's complement, fixed point, floating point, basic arithmetic operations
- introduction to the analysis and design of combinatorial logic and arithmetic circuits
- introduction to the analysis and design of sequential circuits
- construction of wired algorithms
- architecture of a processor

Pre-requisites

Basics of Boolean logic