

Logical systems

Introducing

Description

A) Combinatorial logic: basic notions, Boole algebra, representation of logical functions.

B) Sequential logic: design of sequential production systems

- detailed study of a specification language: Grafcet
- study of the Statechart language
- how to define operating modes using both language.

C) Realization of sequential control systems using Programmable Logic Controller.

Objectives

At the end of this module, the student will have understood and be able to use the main tools and methods for the specification and sequential control of automated production systems.

The student will have to be able to:

- Design the sequential control of an automated production system;
- Implement on a Programmable Logic Controller the various operating modes of a sequential automated system of medium complexity.

Évaluation

L'évaluation des acquis d'apprentissage est réalisée en continu tout le long du semestre. En fonction des enseignements, elle peut prendre différentes formes : examen écrit, oral, compte-rendu, rapport écrit, évaluation par les pairs...

Practical info

Location(s)

 Toulouse