

Actuator Control TER



Component
École Nationale
Supérieure
d'Électrotechnique
d'Électronique

In brief

- > **Amety's Code:** N9EE24C
- > **Open to exchange students:** Yes

Presentation

Objectives

Introduce students to the design of a complex simulation using SABER software Study of the control laws for an asynchronous or synchronous actuator.

Description

Simulation study, using SABER software, of an asynchronous or synchronous machine powered by a voltage inverter. The machine's operation (flux, torque, speed) is regulated using a flux-oriented vector control strategy. The voltage inverter, which is initially idealized, is then represented in detail, with different solutions for generating commands. Study of different PWM inverter modulations