

Switching Mechanisms



Component

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

In brief

- **Ametys Code:** N8AE16B
- **Open to exchange students:** No

Presentation

Objectives

Master the concepts related to the switching of power components used in switched-mode power supplies

Description

This training consists of 3 distinct parts: 1- Introduction to silicon and wide-bandgap (GaN and SiC) power transistors. 2- Analysis of switching and control of generated disturbances (overvoltages, overcurrents, cross-conduction, common-mode currents), 3- Practical implementation of isolations and adjustment of parameters.

Pre-requisites

Basic knowledge of MOSFET transistors