

IS2960 Electronics Laboratory

Professor: Pierre Carpène

Language of instruction: French – **Number of hours:** 36 – **ECTS:** 3

Prerequisites: Good level in analog and digital electronics.

Period: S8 Elective 13, One-week module 15-19 May IN28IS1, SEP8IS1

On completion of the course, students should be able to

gain an in-depth understanding of the systems studied, by establishing links (similarities and differences) between theory and experimentation

Course Contents

Each sequence consists in a mini-project by groups of 2 or 3 students, associating system design (CAD, etc.), building, and testing. Proposed themes:

- ✧ Temperature sensors
- ✧ Radio data transmission
- ✧ Acquisition board (ADC)
- ✧ Analog filters
- ✧ Strain measurements
- ✧ Stabilized power feeding
- ✧ Magnetic field detection

Course Organization

One week (five days) . From 8h00 am to 5h15 pm .

Resources

This laboratory module takes place at Laboratoire d'Informatique et des Systèmes Avancés (LISA). Bâtiment Dumas, salle de réunion du laboratoire LISA (salle D219, 1er étage de la section D)

Evaluation

Oral defense and written report. The report must be sent by email to the professor in charge within one week after the oral defense.