

## 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 2 16-20 May IN28IS2, SEP8IS2

### **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.