

Electricité et électronique

Lecturers

Frédéric ROBERT (Coordinator) and Johan GYSELINCK

Course mnemonic

ELEC-H201

ECTS credits

5 credits

Language(s) of instruction

French

Course period

Second term

F104 | Physique 1 | 5 crédits and PHYS-F205 | Physique 2 | 5 crédits

Co-requisites courses

PHYS-H101 | Connaissances fondamentales et éléments de physique | 10 crédits

Teaching method and learning activities

Lectures + exercices + practical labs

Other information

Contact(s)

Prof. Frederic ROBERT - Frederic.Robert@ulb.ac.be

Evaluation method(s)

written examination

Evaluation method(s) (additional information)

Written examination

Main language(s) of evaluation

French

Programmes

Programmes proposing this course at the Brussels School of Engineering

BA-IRBI | Bachelor in Bioengineering | unit 2

Programmes proposing this course at the faculty of Sciences

BA-INFO | Bachelor in Computer science | unit 3 and BA-IRBI | Bachelor in Bioengineering | unit 2

Course content

- > 1. General introduction
- > 2. Electricity
- > 3. Technology of electronics
- > 4. Amplification (and op-amp circuits)
- > 5. Rectifiers (and rectifier circuits)
- > 6. Introduction to semi-conductors
- > 7. Transistors
- > 8. Introduction to digital electronics

Objectives (and/or specific learning outcomes)

Introduction to electronics, in a user's perspective

Pre-requisites and co-requisites

Pre-requisites courses

MATH-F115 | Compléments d'analyse et algèbre linéaire | 5 crédits, PHYS-F104 | Physique 1 | 10 crédits, PHYS-