

# 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

## 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 , MATH-F121 | Géométrie analytique et calcul matriciel | 5 crédits , MATH-F122 | Algèbre linéaire | 10 crédits , PHYS-

F104 | Physique 1 | 10 crédits , PHYS-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