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## FILELEC - Introduction

### Introduction

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#### Introduction

The aim of this track is initiating the students to the basic concepts of electrical sciences and providing them the fundamental notions in the scientific and technical fields linked to electricity and its applications. More precisely the students will discover the fundamentals of electromagnetics and physical phenomena forming the basis of electronic devices working ; as well as the basic concepts of electronics, telecommunications, and electrodynamic converters.

## FILELEC - Teaching profile

### Learning outcomes

### Programme

#### DETAILED PROGRAMME BY SUBJECT

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫 Not open to incoming exchange students
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

30 crédits

Year

2 3

#### Content:

● LELEC1101	Project in Electricity 1 : Electrical circuits	Christophe Craeye Bruno Dehez Claude Oestges (coord.)	PS [q2] [30h+30h] [5 Credits] 🌐	X	
● LELEC1370	Measurements and electrical circuits	Christophe Craeye Bruno Dehez Claude Oestges (coord.)	PS [q2] [30h+30h] [5 Credits] 🌐	X	
● LELEC1530	Basic analog and digital electronic circuits	Martin Andraud Denis Flandre	PS [q1] [30h+30h] [5 Credits] 🌐		X
● LELEC1755	Physics of electronic devices and transmission lines	Denis Flandre (coord.) Claude Oestges	PS [q1] [30h+30h] [5 Credits] 🌐		X
● LELEC1310	ELECTROMECHANICAL CONVERTERS	Bruno Dehez	PS [q2] [30h+30h] [5 Credits] 🌐		X
● LELEC1360	TELECOMMUNICATIONS	Luc Vandendorpe	PS [q2] [30h+30h] [5 Credits] 🌐		X

#### THE PROGRAMME'S COURSES AND LEARNING OUTCOMES

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

## FILELEC - Information

### Evaluation

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***The evaluation methods comply with the regulations concerning studies and exams (<https://uclouvain.be/fr/decouvrir/rgee.html>). More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".***

