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FILELEC - Introduction

Introduction

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

Detailed programme

PROGRAMME BY SUBJECT

● Mandatory

△ Courses not taught during 2020-2021

⊕ Periodic courses taught during 2020-2021

⊗ Optional

⊖ Periodic courses not taught during 2020-2021

■ Activity with requisites

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

Year

2 3

Content:

● LELEC1101	Project in Electricity 1 : Electrical circuits	Christophe Craeye Bruno Dehez Claude Oestges (coord.)	30h+30h	5 Credits	q2	x	
● LELEC1370	Measurements and electrical circuits	Christophe Craeye Bruno Dehez Claude Oestges (coord.)	30h+30h	5 Credits	q2	x	
● LELEC1530	Basic analog and digital electronic circuits	Denis Flandre Jean-Didier Legat (coord.)	30h+30h	5 Credits	q1		x
● LELEC1755	Physique des dispositifs électroniques et des lignes de transmission	Denis Flandre (coord.) Claude Oestges	30h+30h	5 Credits	q1		x
● LELEC1310	ELECTROMECHANICAL CONVERTERS	Bruno Dehez	30h+30h	5 Credits	q2		x
● LELEC1360	TELECOMMUNICATIONS	Luc Vandendorpe	30h+30h	5 Credits	q2		x

COURSE PREREQUISITES

There are no prerequisites between course units (CUs) for this programme, i.e. the programme activity (course unit, CU) whose learning outcomes are to be certified and the corresponding credits awarded by the jury before registration in another CU.

THE PROGRAMME'S COURSES AND LEARNING OUTCOMES

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the competences expected of every graduate on completion of the programme. You can see the contribution of each teaching unit to the programme's reference framework of learning outcomes in the document *"In which teaching units are the competences and learning outcomes in the programme's reference framework developed and mastered by the student?"*

FILELEC - Information

Access Requirements

Evaluation

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".

