UCLouvain

UCLouvain Study programme 2019 - 2020

Minor in Electricity

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Introduction

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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 fundaments of electromagnetics and physical phenomena forming the basis of electronic devices working ; as well as the basic concepts of electronics, telecommunications, and electrodynamic converters.

Teaching profile

Learning outcomes

Detailled programme

PROGRAMME BY SUBJECT

O Mandatory	⊠ Optional
△ Courses not taught during 2019-2020	⊘ Periodic courses not taught during 2019-2020
⊕ Periodic courses taught during 2019-2020	Activity with requisites

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

Contenu:

						Year 2	Year 3
O LELEC1101	Project in Electricity 1 : Electrical circuits	Christophe Craeye Bruno Dehez Claude Oestges (coord.)	30h+30h	5 Credits	2q	x	
O LELEC1370	Measurements and electrical circuits	Christophe Craeye Bruno Dehez Claude Oestges (coord.)	30h+30h	5 Credits	2q	x	
O LELEC1530	Basic analog and digital electronic circuits	Denis Flandre Jean-Didier Legat (coord.)	30h+30h	5 Credits	1q		x
O LELEC1755	ELECTRICITY : ADVANCED TOPICS	Denis Flandre Danielle Janvier Claude Oestges	30h+30h	5 Credits	1q		x
O LELEC1310	ELECTROMECHANICAL CONVERTERS	Bruno Dehez	30h+30h	5 Credits	2q		x
O LELEC1360	TELECOMMUNICATIONS	Luc Vandendorpe	30h+30h	5 Credits	2q		x

COURSE PREREQUISITES

A document entitled (nb: not available for this programme lfsa133i) specifies the activities (course units - CU) with one or more pre-requisite(s) within the study programme, that is the CU whose learning outcomes must have been certified and for which the credits must have been granted by the jury before the student is authorised to sign up for that activity.

These activities are identified in the study programme: their title is followed by a yellow square.

As the prerequisites are a requirement of enrolment, there are none within a year of a course.

The prerequisites are defined for the CUs for different years and therefore influence the order in which the student can enrol in the programme's CUs.

In addition, when the panel validates a student's individual programme at the beginning of the year, it ensures the consistency of the individual programme:

- It can change a prerequisite into a corequisite within a single year (to allow studies to be continued with an adequate annual load);
- It can require the student to combine enrolment in two separate CUs it considers necessary for educational purposes.

For more information, please consult regulation of studies and exams (https://uclouvain.be/fr/decouvrir/rgee.html).

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?"*

Information

Liste des bacheliers proposant cette mineure

> Bachelor in Physics *[en-prog-2019-phys1ba]*

Admission

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".