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Introduction

Introduction

Teaching profile

Learning outcomes

The main objective of the "polytechnic" minors organized by the Faculté des Sciences Appliquées is for a student taking the engineering science baccalaureate, should s/he so wish, to acquire, via a major/minor polytechnic combination, basic training in two specialist areas of engineering science, and thus to broaden his/her range of technical skills, or to prepare for a master's in engineering science which spans the basic courses offered at baccalaureate level. The disciplinary objectives of the minor in electricity are to help the student acquire the majority of the discipline's basic concepts and provide him/her with fundamental knowledge in its main areas of application, more precisely: Designing, analyzing, simulating and testing electrical circuits, putting standard components in place

Understanding the foundations of electromagnetic theory and physical phenomena which are at the origin of how electronic devices work Mastering the basic concepts of electronics, telecommunications and electrodynamic converters

Detailed programme

PROGRAMME BY SUBJECT

● Mandatory

△ Courses not taught during 2014-2015

⊕ Periodic courses taught during 2014-2015

⊗ Optional

⊖ Periodic courses not taught during 2014-2015

‡ Two years course

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

Year

2 **3**

o Contenu de la mineure (30 credits)

● LELEC1101	Project in Electricity 1 : Electrical circuits	Christophe Craeye, Bruno Dehez, Claude Oestges (coord.)	0h+60h	5 Credits	2q	x	
● LELEC1370	Measurements and electrical circuits	Christophe Craeye, Bruno Dehez, Claude Oestges (coord.)	30h+30h	5 Credits	2q	x	
● LELEC1310	ELECTROMECHANICAL CONVERTERS	Bruno Dehez	30h+30h	5 Credits	2q		x
● LELEC1360	TELECOMMUNICATIONS	Luc Vandendorpe	30h+30h	5 Credits	2q		x
● LELEC1530	Basic analog and digital electronic circuits	Denis Flandre, Jean-Didier Legat	30h+30h	5 Credits	1q		x
● LELEC1755	ELECTRICITY : ADVANCED TOPICS	Denis Flandre, Danielle Janvier	30h+30h	5 Credits	1q		x

Information

Liste des bacheliers proposant cette mineure

> [Bachelor in Engineering](#) [en-prog-2014-fsa1ba]

Admission

This polytechnic minor is organized chiefly for students enrolled on a baccalaureate in engineering science (civil engineer and architectural civil engineer). The minor is also accessible to students enrolled on baccalaureate programs in mathematical or physical science. Minor activities must be taken in an order that respects the following requirements: - The ELEC1370 and ELEC 1101 courses must be taken before any other minor courses.

Possible trainings at the end of the programme

Majors-minors giving direct access to master's program(s) Polytechnic minors provide students who have performed well and acquired a bachelor's qualification in engineering science-civil engineering, as part of a program which includes one of these minors, with unconditional access without further training to the master's in civil engineering which corresponds to this minor. For the minor in applied chemistry and physics: the master's in civil engineering in chemistry and material science and the master's in physicist-civil engineering. For the minor in construction: the master's in civil engineering in construction For the minor in electricity: the master's in electrician civil engineer For the minor in IT: the master's in IT civil engineer For the minor in mechanics: the master's in mechanic-civil engineer For the minor in applied mathematics: the master's in civil engineer in applied mathematics For a program which combines a major in electricity/minor in mechanics or major in mechanics/minor in electricity: the master's in electromechanic/civil engineer.

Contacts

Curriculum Managment

Entite de la structure ELEC

Acronyme	ELEC
Dénomination	Commission de programme - Ingénieur civil électricien
Adresse	Place du Levant, 3 bte L5.03.02 1348 Louvain-la-Neuve Tél 010 47 25 86 - Fax 010 47 86 67
Secteur	Secteur des sciences et technologies (SST)
Faculté	Ecole Polytechnique de Louvain (EPL)
Commission de programme	Commission de programme - Ingénieur civil électricien (ELEC)

Academic Supervisor : [Denis FLANDRE](#)

Jury

Usefull Contacts

Secrétariat : **Isabelle DARGENT**

Infos

