UCLouvain

UCLouvain Study programme 2017 - 2018

Additional module in computer science

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Introduction

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This additional module in Computer Science offers:

• a deepening and broadening of knowledge and skills in different areas in computer science

• to study and deepen further themes not addressed in the major course.

Therefore, the additional module in computer science does not anticipate courses normally present within the master in computer science.

Most of the activities proposed in this additional module are oriented towards informatics for organizational business needs. Various themes are addressed as the place of information systems in business, project management, taking into account non-technical issues in the company, the interface between man and machine ...

Teaching profile

Learning outcomes

To extend and / or improve their knowledge and skills related to different areas in computer science
To deploy them to study in depth an issue or complex computer system,
To possibly facilitate the choice of options in the master's program.

On successful completion of this programme, each student is able to :

Compl-disc.1. master the knowledge and extensive expertise in different areas in computer science to possibly facilitate the choice of the options in the master's program.
• Perceive the role of information systems in enterprises

o describe the operation of an information system in enterprises;
o design and develop an information system and justify the design choices in relation to the enterprise organisation and needs ;
o analyse and adapt an existing information system;

Compl.discpl.2. Develop a thorough understanding of human-computer interaction in a computer system.
• Develop quality human-machine interface that meets the user expectations

o describe the issues of interaction between man and machine;
o design and develop a software interface and justify the design choices in relation to the issues of man-machine interaction;
o analyse and adapt an existing interface to better meet the challenges of human-computer interaction

Compl-discpl.3. Demonstrate and operate pertinently a broader range of tools within computer science in a project team (developing transversal competences)

• Rely on its non-technical skills to contribute to the advancement of an IT project
• make a convincing demonstration of software;
• present a convincingly product based on multimedia support;
• work effectively in small groups;
• know the managerial, human and economic challenges of managing an IT project and master some tools and methods to manage.

Detailled programme

PROGRAMME BY SUBJECT

O Mandatory
X Optional
△ Courses not taught during 2017-2018
⊘ Periodic courses not taught during 2017-2018
⊕ Periodic courses taught during 2017-2018
Activity with requisites

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

						Year 2	3
O LSINF1210	Information systems and IT projects management	Manuel Kolp	30h+15h	5 Credits	1q	x	
O LSINF1212	Computer science deepening project	Siegfried Nijssen	22.5h +22.5h	5 Credits	2q	x	
O LINGE1322	Computer science: Analysis and Design of Information Systems	Jean Vanderdonckt	30h+15h	5 Credits	2q	x	
O LSINF1311	Human-computer interaction	Jean Vanderdonckt	30h+15h	5 Credits	1q		x
O LPSP1209	Statistics, inference on one or two variables	Bernadette Govaerts	22.5h +15h	5 Credits	1q		x

O Choice Courses of the additional module in computer sciences

The student completes his program by choosing one of following courses

X LLSMF2013	Data Analytics applied in Business (Names from A to K)	Manuel Kolp Marco Saerens	30h	5 Credits	2q		x
X LLSMF2014	Data Analytics applied in Business (Names from L to Z)	Manuel Kolp Marco Saerens	30h	5 Credits	2q		x
X LINMA1702	Optimization models and methods I	François Glineur	30h +22.5h	5 Credits	2q		x

COURSE PREREQUISITES

A document entitled (nb: not available for this programme lsinf110p) 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.

THE PROGRAMME'S COURSES AND LEARNING OUTCOMES

For each UCL 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 Computer Science *[en-prog-2017-sinf1ba]*

Admission

Specific Admission Requirements

This option additional module in computer sciences is accessible only to students enrolled in the Computer Science Bachelor program.

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".

Possible trainings at the end of the programme

This option does not give direct access to a Masters program. However, since this option is reserved for bachelor students in computer science, these students obviously have access to the Masters program in Computer Science.

Contacts

Attention, you are currently reading an archived page: below contact informations were for program study 2017-2018 only. To get current contact informations please got to current program study site.

Curriculum Management

Entity

Structure entity	SST/EPL/INFO
Denomination	(INFO) (https://uclouvain.be/repertoires/entites/info)
Faculty	Louvain School of Engineering (EPL) (https://uclouvain.be/repertoires/entites/epl)
Sector	Sciences and Technology (SST) (https://uclouvain.be/repertoires/entites/sst)
Acronym	INFO
Postal address	Place Sainte Barbe 2 - bte L5.02.01 1348 Louvain-la-Neuve Tel: +32 (0) 10 47 31 50 - Fax: +32 (0) 10 45 03 45

Academic supervisor: Kim Mens

Useful Contact(s)

- Chantal Poncin

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