UCL Study programme

2016 - 2017

Additionnal module in Computer Sciences

Table of contents

Introduction

Introduction

Teaching profile

Learning outcomes

The APPSINF option â€œadditional module in computer sciencesâ€# enables bachelor students in computer science to deepen their knowledge of certain themes in computer science that differ from those seen in their computer science major as well as from the themes addressed in the Computer Science Masters program.

The option does not allow the students to anticipate courses that are normally present in the Computer Science Masters program.

Most of the activities proposed in this option are focused on the use of information technology to address the organizational needs of enterprises. A variety of themes are addressed such as the place of information systems in enterprises, project management taking account the non-technical needs of enterprises, human-computer interaction, â€¦

After having completed this option, the student will have acquired the following skills:

Information systems
· Describing the operation of an information system in the context of an enterprise;
· Designing and developing an information system and justifying the choices made in relation to the operation of an enterprise;
· Analysing and adapting an existing information system;

Human-computer interaction
· Describing the issues concerning the interaction between man and machine;
· Designing and developing a human-computer interface and justify the choices made in relation to the issues that concern human-computer interaction;
· Analysing and adapting an existing interface to provide a better human-computer interaction;

Non-technical skills
· Giving a convincing demonstration of a developed software system;
· Presenting a product convincingly by means of a multimedia presentation;
· Working efficiently in small groups (4 computer science students);
· Understanding the managerial, human and economic issues of an IT project and mastering the tools and methods to manage these issues.

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

de percevoir la place des systèmes d'information au sein des entreprises

- décrire le fonctionnement d'un système d'information au sein des entreprises;
- concevoir et développer un système d'information en justifiant ses choix en relation avec le fonctionnement d'une entreprise;
- analyser et adapter un système d'information existant;

de développer une interface homme-machine de qualité qui convienne au attente de l'utilisateur

- décrire les enjeux de l'interaction entre homme et machine;
- concevoir et développer une interface d'un logiciel en justifiant ses choix en relation avec les enjeux de l'interaction homme-machine;
- analyser et adapter une interface existante pour qu'elle réponde mieux aux enjeux de l'interaction homme-machine;

s'appuyer sur ses compétences non-techniques pour contribuer à l'avancement d'un projet informatique

- faire une démonstration convaincante d'un logiciel;
- présenter un produit de manière convaincante en s'appuyant sur un support multimédia;
- travailler de manière efficace en petit groupe (4 informaticiens);
- connaître les enjeux managériaux, humains et économiques de la gestion d'un projet informatique et maîtriser quelques outils et méthodes permettant de les gérer.

Detailled programme

PROGRAMME BY SUBJECT

O Mandatory	⊠ Optional
△ Courses not taught during 2016-2017	⊘ Periodic courses not taught during 2016-2017
⊕ Periodic courses taught during 2016-2017	Activity with requisites

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

						Year 2	3
O LSINF1211	Introduction to information systems	Manuel.Kolp	30h+15h	5 Credits	1q	x	
O LSINF1212	Computer science deepening project	Sebastian.Gonzalez	22.5h +22.5h	5 Credits	2q	x	
O LSINF1311	Human-computer interaction	Jean.Vanderdonckt	30h+15h	5 Credits	1q		x
O LSINF1312	Project management in computer science	Manuel.Kolp	30h+15h	5 Credits	1q		x
O LINGE1322	Computer science: Analysis and Design of Information Systems	Jean.Vanderdonckt	30h+15h	5 Credits	2q	x	

O Choice Courses of the additional module in computer sciences

The student completes his program by choosing one of following both courses

⊠ LLSMF2013	Quantitative data analysis(in English)	Marco.Saerens	30h	5 Credits	2q		x
⊠ LLSMF2014	IT management (in French)	Manuel.Kolp	30h	5 Credits	2q		x

COURSE PREREQUISITES

A document entitled en-prerequis-2016-app-lsinf110p.pdf 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?"

The document is available by clicking this link after being authenticated with UCL account.

Information

Liste des bacheliers proposant cette mineure

> Bachelor in Computer Science *[en-prog-2016-sinf1ba]*

Admission

This option â€œadditional module in computer sciencesâ€# is accessible only to students enrolled in the Computer Science Bachelor program.

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

Curriculum Managment

Entite de la structure INFO

Acronyme	**INFO**
Dénomination	Commission de programme - Sciences informatiques et ingénieur civil en informatique
Adresse	Place Sainte Barbe, 2 bte L5.02.01
	1348 Louvain-la-Neuve
	Tél 010 47 31 50 - Fax 010 45 03 45
Secteur	Secteur des sciences et technologies (SST)
Faculté	Ecole Polytechnique de Louvain (EPL)
Commission de programme	Commission de programme - Sciences informatiques et ingénieur civil en informatique (INFO)

Academic Supervisor : Kim MENS

Jury

Usefull Contacts

Conseillère aux études : Chantal PONCIN

Infos