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APPSINF - Introduction

Introduction

Introduction

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 ...

APPSINF - 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-discipl.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.

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

o Content:

o Cours obligatoires

○ LINFO1212	Projet d'approfondissement en sciences informatiques	Siegfried Nijssen	30h+30h	5 Credits	q1	x	
○ LINFO1311	Interface homme-machine	Jean Vanderdonck	30h+15h	5 Credits	q2	x	
○ LINFO1210	Systèmes d'information et gestion de projets informatiques	Manuel Kolp	30h+15h	5 Credits	q2	x	
○ LINFO1122	Méthodes de conception de programmes	Charles Pecheur	30h+30h	5 Credits	q1		x
○ LINFO1131	Paradigms of concurrent programming	Peter Van Roy	30h+30h	5 Credits	q1		x

o Choice Courses of the additional module in computer sciences

The student completes his program by choosing one of following courses

⊗ LLSMF2013	Data Analytics applied in Business (Names from A to K)	Manuel Kolp Marco Saerens	30h	5 Credits	q2		x
⊗ LLSMF2014	Data Analytics applied in Business (Names from L to Z)	Manuel Kolp Marco Saerens	30h	5 Credits	q2		x

						Year	
						2	3
⌘ LINMA1702	Optimization models and methods I	François Glineur	30h +22.5h	5 Credits	q2		x
⌘ LINFO1225	Conception orientée objet et gestion de données	Kim Mens	30h+30h	5 Credits	q2 Δ	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?*"

APPSINF - Information

Access Requirements

Specific access 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

Curriculum Management

Entity

Structure entity

Denomination

Faculty

Sector

Acronym

Postal address

SST/EPL/INFO

[\(INFO\)](#)

Louvain School of Engineering ([EPL](#))

Sciences and Technology ([SST](#))

INFO

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Useful Contact(s)

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