UCLouvain

binge1311

2023

Computer science III

5.00 credits	30.0 h + 15.0 h	Q2

Teacher(s)	Laurier Wim ;
Language :	French
Place of the course	Bruxelles Saint-Louis
Prerequisites	*The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.*
Learning outcomes	**At the end of this learning unit, the student is able to :** This course aims at the analysis, study and use, as well as the design and critique of enterprise information systems including databases and ERP software. The course is based on the conceptual modeling languages UML and EA to cover the analysis and design stages of information systems. Although this language was developed for the conceptual modeling of object-oriented software, the course will be limited to the implementation of conceptual models for the design and management of databases.
Evaluation methods	Permanent evaluation (group work) integrated with the practical work + Oral exam (individual). The permanent assessment evaluates the analytical skills of the students through an analysis of a specification and the ability to transform this analysis into an information system (i.e. production). The oral exam assesses the student's critical skills and ability to adapt the solution to the dynamic needs and requirements of a client.
Teaching methods	Face-to-face, 30 hours of theory and 15 hours of exercises. Ex cathedra presentations, training sessions and a project. The project involves the analysis, design and implementation of an information system with database technology.
Content	The following list is tentative, and subjects may change during the semester. The subjects will not necessarily be covered in the order shown below: • Analysis of a problem statement • Conceptual Modeling • Class Diagram • Design Patterns and Methods • Relational models • Database Implementation SQL DDL • Database Management : SQL DML
Other infos	Syllabus is available on eSaintlouis.
Faculty or entity in charge	ESPB

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor : Business Engineering	INGB1BA	5	BECGE1230	🔍
Bachelor : Business Engineering (French-English)	INAB1BA	5	BECGE1230	🔍
Bachelor : Business Engineering (French-Dutch-English)	INTB1BA	5	BECGE1230	🔍