UCLouvain

lsinc1301

2025

Databases and modeling

The version you're consulting is not final. This course description may change. The final version will be published on 1st June.

5.00 credits	30.0 h + 30.0 h	Q1

This learning unit is not open to incoming exchange students!

Language :	French
Place of the course	Charleroi
Prerequisites	LSINC1101, LSINC1103, LSINC1402, LSINC1201
Main themes	This course is also an introduction to databases. The course addresses the issue of modeling information systems through databases. 1st PART - Concepts of relational databases. Elements of the SQL language. 2nd PART - Methodology of databases. Basic entity-relationship model. Development of a conceptual scheme. Production of a database schema.
Learning outcomes	**At the end of this learning unit, the student is able to :** • rationally express typical problem situations in an appropriate formalism: data structures (relational model), queries (SQL2), semantic information structures (entity-association model).
Evaluation methods	The assessment focuses on knowledge, the ability to combine disparate knowledge and the ability to solve problems. It takes the form of a closed-book written test lasting 3 hours.
Teaching methods	The course is organized in the form of an oral presentation by the teacher, based on detailed slide shows. Exercises carried out in the classroom or to be prepared at home are offered for each chapter of the course. Machine work is planned.
Other infos	Hainaut, J.-L., Bases de données - Concepts, utilisation et développement (5e édition), Dunod, Paris, 2022
Faculty or entity in charge	SINC

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Computer Science	SINC1BA	5		🔍