

# Conception et gestion de banques de données

## Lecturer

Frédéric SERVAIS (Coordinator)

## Course mnemonic

STIC-B505

## ECTS credits

5 credits

## Language(s) of instruction

French

## Course period

First term

## Course content

Content Study of formalisms for representing information (with emphasis on the entity-relationship and relational models) and of their application to building and using information systems. Discuss recent evolutions in the light of the widespread availability of databases and web usage. Build hands-on experience with a software tool for assisting database designers

## Objectives (and/or specific learning outcomes)

Goal Gain familiarity with (1) a conceptual view of databases and information systems, emphasizing information content from a user point of view rather than the physical representation of data or the construction of complex application programs, and (2) the methodology for designing information systems.

## Pre-requisites and co-requisites

### Pre-requisites courses

STIC-B405 | Introduction aux bases de données | 5 crédits, STIC-B450 | Algorithmes et programmation I | 5 crédits and STIC-B455 | Algorithmes et programmation II | 5 crédits

## Teaching method and learning activities

> Theoretical lessons - Exercises - Project follow-up sessions

## References, bibliography and recommended reading

Bibliography - R. Elmasri and S. Navathe, Fundamentals of database systems, Addison-Wesley, 5th ed., 2007- Jean-Luc Hainaut, "Bases de données - Concepts, utilisation et développement", 2ème édition, Dunod 2012.

## Other information

### Contact(s)

fservais@ulb.ac.be

## Evaluation method(s)

Other

### Evaluation method(s) (additional information)

> Written examination + Project

### Determination of the mark (including the weighting of partial marks)

> Written examination (60%)- Project (40%)

## Programmes

### Programmes proposing this course at the faculty of Letters, Translation and Communication

MA-STIC | Master in Information and Communication Science and technology | finalité Professional/unit 2

### Programmes proposing this course at the faculty of Philosophy and Social Sciences

MA-HHIST | Master in History | finalité History and governments/unit 2, MA-HMUSI | Master in History of Art and Archaeology : Musicology | finalité Research/unit 1, finalité Research/unit 2, finalité Teaching/unit 1 and finalité Teaching/unit 2 and MA60-HMUSI | Master in History of Art and Archaeology : Musicology (60 credits) | unit U

### Programmes proposing this course at the faculty of Sciences

MA-ACTU | Master in Actuarial Science | finalité Professional/unit 2