

Databases for Bioinformatics (C003085)

Course size *(nominal values; actual values may depend on programme)*

Credits 3.0

Study time 80 h

Course offerings in academic year 2024-2025

Lecturers in academic year 2024-2025

De Bleser, Pieter

WE14

lecturer-in-charge

Offered in the following programmes in 2024-2025

crdts

offering

Teaching languages

English

Keywords

Databases, relational databases, bioinformatics

Position of the course

THIS ELECTIVE COURSE IS NO LONGER AVAILABLE

The goal of the course is to provide basic knowledge about the principles and the organization of relational databases systems. The students will learn how to organize the information, create a simple database system and also how to query the database system.

This course contributes to the following program competencies: Ma.WE.BB.1.2, Ma.WE.BB.1.3, Ma.WE.BB.2.5, Ma.WE.BB.2.6

Contents

- Database concepts
- Database design crash course
- Creating databases, tables and indexes
- Inserting, deleting and updating data
- Queries
- Advanced queries

Initial competences

Basic computer knowledge.

Final competences

- 1 Be able to structure informations in a suitable way for a relational database system.
- 2 Design and create the database system.
- 3 Perform queries on the database system.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Seminar, Lecture

Study material

Type: Slides

Name: Slides'

Indicative price: Free or paid by faculty

Optional: no

References

MySQL Tutorial - Luke Welling & Laura Thompson

Course content-related study coaching

In addition to the classroom lectures, the students can contact the teacher personally for questions or further information. This can be done through e-mail or after making an appointment.

Assessment moments

end-of-term assessment

Examination methods in case of periodic assessment during the first examination period

Skills test

Examination methods in case of periodic assessment during the second examination period

Skills test

Examination methods in case of permanent assessment

Possibilities of retake in case of permanent assessment

not applicable

Calculation of the examination mark

Periodic evaluation: 100% based on skills test.