GHENT UNIVERSITY

Course Specifications

Valid as from the academic year 2014-2015

Relational Databases as tools for marine data management (C003293)

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

Credits	4.0	Study time	100 h	Contact hrs	80.0 h

Course offerings in academic year 2018-2019

A (semester 2)	English

Lecturers in academic year 2018-2019

Deprez, Tim	WE11	lecturer-in-charge

Offered in the following programmes in 2018-2019	crdts	offering
Course List Joint Doctoral Training Programme in Marine Ecosystem Health and Conservation	4	A
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Teaching languages

English

Keywords

Databases

Position of the course

Contents

Course Content Description
During this training trainees get an introduction to the concept and history of relational data structures. The pros and cons are shown and explained with a set of hands on examples. In a first chapter the basic elements of relational databases are explained: tables, fields, relationships. This first chapter is concluded with a set of hands-on exercises aiming to make database structures fitting specific scientific needs. A second chapter focuses on data export and data selection techniques. Through the use of queries trainees learn how to efficiently export data from the database towards different formats (eg. Statistical inputs). A third chapter provides training in the setup of visual interfaces. An introduction to forms and reports is provided, also dynamic links to spreadsheets and data visualisation tools are explored. The fourth and final chapter informs on differences in database software, how to link databases to each other, use of databases in multi-user environments, ... The course is making use of MSAccess as main software tool for explanation of the different explained database concepts. An overview of other tools is provided as well, although not used in depth.

Course Methodology
1. As a workshop of 5 days: In case the workshop option is followed, than the course is organized within one single week. Lectures start on Monday and finish on Friday. During the course trainees can use computers in a computerroom of Ghent University.

Initial competences

Final competences

http://www.ugent.be

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

Lecture, seminar: practical PC room classes

Learning materials and price

References

Course content-related study coaching

Evaluation methods

continuous assessment

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

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

Examination methods in case of permanent evaluation

Participation

Possibilities of retake in case of permanent evaluation

not applicable

Calculation of the examination mark