Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

### Lecturers in academic year 2021-2022

- **Deprez, Tim**
  - WE11 lecturer-in-charge

### Course offerings and teaching methods in academic year 2021-2022

<table>
<thead>
<tr>
<th>Course Offering</th>
<th>Language</th>
<th>Location</th>
<th>Contact Hrs</th>
<th>Study Time</th>
<th>Credits</th>
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<tbody>
<tr>
<td>A (semester 1)</td>
<td>English</td>
<td>Gent</td>
<td>lecture 15.0 h</td>
<td>seminar: practical PC room 15.0 h</td>
<td>3.0</td>
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</table>

### Course size
- Credits: 3.0
- Study time: 90 h
- Contact hrs: 30.0 h

### Offered in the following programmes in 2021-2022
- Master of Science in Marine and Lacustrine Science and Management: 3 credits, offering A

### Teaching languages
- English

### Keywords
- Information management, data management, data formats, metadata, datasets, derived products, relational databases

### Position of the course
To discuss the importance of data- and information management for marine and lacustrine sciences. To give an overview of state-of-the-art principles, practices and networks in a global context. To illustrate the relevance of good data and information management for the production of derived products for the support of research and policy. To get the basic understanding of designing a proper relational database for supporting a research project.

### Contents
- Introduction to data- and information management in marine and lacustrine sciences. The participants get an overview of what data- and information management implies, and an introduction to some tools which are often used for information management. The topics handled in this course are:
  1. Data and information in global oceanography today (Collecting data, Research oceanography, Survey oceanography, Operational oceanography, International programs, agencies & organizations)
  2. Information technology & scientific communication (Computer technologies, Metadata, Information seeking in electronic environments, Information & technology programs & organizations)
  3. Information management principles (concepts, relational databases, data centres)
  4. From research proposal to derived products (data policies, data protocols, databases, distribution of data).
  5. Hands on exercises (both in IODE project office, MSaccess and database design at University)

### Initial competences
- Basic biology, geology, chemistry, physics basic computing skills

### Final competences
1. At the end of the course, the participant should have insight in the relevance of data- and information management.
2. He/she should be able to find and integrate information and data from several sources, and
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

Extra information on the teaching methods
Lectures, practical exercises and discussions; visit to the IOC Project Office for IODE in Ostend.

Learning materials and price
Cost: 0.0 EUR Syllabus, lecture notes, handouts of ppt files, articles.

References
Recommended literature is available in OceanPortal's digital library at http://ioc.unesco.org/oceanteacher/oceanteacher2/DigitalLibrary.htm

Course content-related study coaching
Teacher is available for questions, and help, extra material will be posted online.

Evaluation methods
- end-of-term evaluation

Examination methods in case of periodic evaluation during the first examination period
Written examination with open questions, oral examination, assignment.

Examination methods in case of periodic evaluation during the second examination period
Written examination with open questions, oral examination, assignment.

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation
not applicable

Extra information on the examination methods
Summary report by each student, to be discussed at examination. Short written exam with possibility of oral defence.

Calculation of the examination mark