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.

Course size
(nominal values; actual values may depend on programme)
Credits 6.0 Study time 180 h Contact hrs 60.0 h

Course offerings and teaching methods in academic year 2020-2021
A (semester 1) English Gent lecture 25.0 h
group work 15.0 h
seminar 12.5 h
practicum 15.0 h

Lecturers in academic year 2020-2021
N., N. lecturer-in-charge

Offered in the following programmes in 2020-2021 crdts offering
Master of Science in Marine and Lacustrine Science and Management 6 A

Teaching languages
English

Keywords
Sediment sampling equipment, analytical techniques in sedimentology, sedimentological case-studies

Position of the course
This course is focused on the use of sediments for research purposes. It builds on the general principles of sediment production, transport, and deposition that were introduced at the Bachelor level.

Contents
Sediment sampling techniques, in-situ sediment monitoring instruments, coring equipment.
Analytical techniques in sedimentology.
Core logging instrumentation: Multi-sensor core loggers, XRF and CT core scanners.
Interpretation of multi-proxy sediment records, including age-depth modeling.
Recent advances in sedimentology.
Case-studies (seminars given by guest speakers).

Initial competences
The student knows the basic concepts of sedimentology and stratigraphy, such as sediment production, transport and deposition. He/she knows the main depositional environments.

Final competences
1 The student can design a research project based on sediments and sedimentary archives.
2 He/she is able to select the most appropriate techniques to analyze sediments for specific purposes.
3 He/she can combine and interpret data obtained using several independent techniques.

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

Conditions for exam contract

(Approved)
This course unit cannot be taken via an exam contract

Teaching methods
   Group work, lecture, practicum, seminar

Learning materials and price
   Course notes, hand-outs, and scientific articles available on Ufora.

References
   Specific scientific articles given during the course.

Course content-related study coaching
   Discussion of problems and questions during and after the lectures and seminars. Continued support by teaching assistants during the practical exercises.

Evaluation methods
   end-of-term evaluation

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

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

Examination methods in case of permanent evaluation
   Written examination, report

Possibilities of retake in case of permanent evaluation
   not applicable

Calculation of the examination mark
   Theoretical exam, including conception, presentation, and discussion of sediment-based mock research project: 75%
   Group project report: 25%

(Approved)