Course Specifications
Valid as from the academic year 2020-2021

Paleobiology of Micro-organisms (C001584)

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  5.0  Study time  140 h  Contact hrs  50.0 h

Course offerings and teaching methods in academic year 2020-2021
A (semester 1)  English  Gent  practicum  30.0 h
                           lecture  20.0 h

Lecturers in academic year 2020-2021
Louwye, Stephen  WE13  lecturer-in-charge
Wong Hearing, Thomas  WE13  co-lecturer

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
Palaeobiology, fossil micro-organisms, morphology, evolution, palaeoenvironment, palaeogeography, dating

Position of the course
Knowledge and insight of the most important groups of fossil micro-organisms and their evolution over Earth's history. Their use as proxies for the reconstruction of the palaeoenvironment, palaeogeography and palaeoclimate.

Contents
The palaeobiology of fossil microorganisms over Earth's history: morphology and general characteristics, life strategies, palaeoproductivity, fossilisation and taphonomy, diversity and palaeogeography, evolution, radiation, and extinctions. Fossil micro-organisms as proxies for the palaeo-environment: principles and case studies.

Initial competences
Knowledge of phycology and protistology.

Final competences
1  Advanced knowledge of the discussed fossil microorganisms and their identification criteria.
2  To possess a fundamental insight in their evolution during the Phanerozoic.
3  Apply this knowledge to determine palaeoenvironmental parameters and to reconstruct the palaeogeography and palaeoclimatology.

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, practicum

(Approved)
Learning materials and price


References


Course content-related study coaching

        Possibility to ask questions about the oral teaching classes by email, via personal contact and during the practical exercises. Guidance during practical exercises by teachers and assistants.

Evaluation methods

        end-of-term evaluation and continuous assessment

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

        Written examination with open questions, assignment

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

        Written examination with open questions, assignment

Examination methods in case of permanent evaluation

        Assignment

Possibilities of retake in case of permanent evaluation

        Examination during the second examination period is not possible

Extra information on the examination methods

        Written (theory) and report (practical exercises)

        Form and contents of the examination are explained at the end of the course. A test evaluates whether students have internalized the final objectives.

Calculation of the examination mark

        Work piece 25%, written exam 75%

(Approved)