Course Specifications
Valid as from the academic year 2017-2018

Paleobiology of Micro-organisms (C001584)

Course

Course offerings and teaching methods in academic year 2017-2018
A (semester 1)  
practicum  30.0 h

lecture  20.0 h

Lecturers in academic year 2017-2018
Louwye, Stephen  WE13  lecturer-in-charge
Vandenbroucke, Thijs  WE13  co-lecturer

Offered in the following programmes in 2017-2018

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<td>Master of Science in Marine and Lacustrine Sciences</td>
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<td>Master of Science in Marine and Lacustrine Science and Management</td>
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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 since the Precambrian. Their use as proxies for the reconstruction of the palaeoenvironment, palaeogeography and palaeoclimate.

Contents
The palaeobiology of fossil microorganism since the Precambrian: morphology and general characteristics, life strategies, palaeoproductivity, fossilisation and taphonomy, diversity and palaeogeography, evolution, radiation, and extinctions. Fossil microorganisms 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 excercises. 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%