GHENT UNIVERSITY

Course Specifications

From the academic year 2020-2021 up to and including the academic year

Analytical Chemistry for Identification of Bioactive Marine Molecules (C004322)

Due to Covid 19, the education and assessment 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 150 h** **Contact hrs** 39.0h

Course offerings in academic year 2021-2022

A (semester 1) English Gent

Lecturers in academic year 2021-2022

Mehiri, Mohamed	NICE04	lecturer-in-charge
Dayras, Marie	NICE04	co-lecturer
Industri, Benoit	NICE04	co-lecturer
Poncet, Michel	NICE04	co-lecturer
Revel, Johana	NICE04	co-lecturer
Seasseau, Aurélie	NICE04	co-lecturer

Offered in the following programmes in 2021-2022	**crdts**	**offering**
International Master of Science in Marine Biological Resources	6	A

Teaching languages

English

Keywords

Analytical chemistry, identification, extraction, fractioning, purification, chemistry, metabolite, marine fungi, sponge, invertebrate, endophyte, halophile, HPLC, MarinLit

Position of the course

Contents

Students will be trained through lectures, visits and a one full-week lab on extraction, fractionation and chemical analysis of metabolites produced by marine fungi isolated from sponges. The objective is the characterization of strains and molecules for a valorization in the agronomic field as plant protection agents against certain pathologies or as biostimulants. This work is carried out in close collaboration between the ICN lab (chemistry lab), INRA (agronomy lab) and the company NIXE.

Initial competences

Marine ecology, background in chemistry

Final competences

1 Analytical chemistry.
2 Identification, extraction, fractioning, chemical analysis of marine metabolite.

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

Practicum, Group work, Excursion, Lecture

Learning materials and price

none

References

Course content-related study coaching

none

Assessment moments

end-of-term and continuous assessment

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

Written examination with multiple choice questions, Written examination with open questions

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

Written examination with multiple choice questions, Written examination with open questions

Examination methods in case of permanent assessment

Portfolio, Oral examination, Assignment

Possibilities of retake in case of permanent assessment

examination during the second examination period is possible in modified form

Extra information on the examination methods

Lab work, Portfolio, group presentation, peer assessment, written examination:
open questions, written examination: MCQ

Calculation of the examination mark

- 60% continuous assessment,
- 40% terminal assessment