

Practical Applications of Blue Economy and Sustainable Use of Marine Resources (C004329)

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 3.0

Study time 75 h

Contact hrs

15.0h

Course offerings in academic year 2021-2022

A (semester 1)

English

Gent

Lecturers in academic year 2021-2022

Lundberg, Erik

GOTEB001 lecturer-in-charge

Offered in the following programmes in 2021-2022

crdts

offering

[International Master of Science in Marine Biological Resources](#)

3

A

Teaching languages

English

Keywords

Sea and society, blue economy, biological resources, sustainability

Position of the course

Contents

In this course the students will apply the knowledge learnt in the course 'Blue Economy and Sustainable Use of Biological Resources' to real case studies. This course follows a project-based learning methodology. Students will work individually or in small teams, supervised by an academic supervisor, developing a practical project focused on one of the subjects taught in 'Blue Economy and Sustainable Use of Biological Resources'.

Specific subjects are:

- 1 Economic growth and social, economic and ecological sustainability. Marine governance systems. Laws and regulations of marine and maritime activities.
- 2 Environmental impact, management and regulations of international fisheries. Industrial fisheries vs artisanal fisheries. Ecosystem based fishery management.
- 3 Opportunities and future challenges of shipping, off-shore industry, and expansion into new environments. Impacts of deep-sea mining and development of the arctic.
- 4 Trends and challenges in marine tourism and recreation. Small-scale coastal exploitation and leisure boating. Sustainable uses and new perspectives.
- 5 Potential and challenges with marine aquaculture. New products and research. Legal and sustainability issues.
- 6 Legal, economic and ecological tools for a sustainable development. Monitoring and status assessment of the marine environment. Valuation of ecosystem services, polluter pays principles and ecological compensation.

Initial competences

Students have a sufficient educational background and practical skills in the field of marine sciences for accomplishing their tasks.

Final competences

- 1 Students should be able to integrate and apply their knowledge about the critical balance between economy and use, on the one hand, and ecosystem sustainability on the other hand, of marine and maritime activities of major importance for the society.
- 2 Students will also develop the necessary attitude, engagement and skills for

understanding, exploring and communicating with stakeholders and general public about marine issues, including the environment and the natural resources.

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, Self-reliant study activities, Project

Extra information on the teaching methods

The course consists of project work on a topic related to blue economy and sustainable use of biological resources, which should result in an oral presentation and a written report.

Learning materials and price**References****Course content-related study coaching****Assessment moments**

continuous assessment

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

Report, Written examination, Participation, Oral examination, Assignment

Possibilities of retake in case of permanent assessment

examination during the second examination period is possible

Extra information on the examination methods

The course is examined through a final assignment including both a written and an oral presented part.

Calculation of the examination mark

60% of the score will be given based on the student's report (in writing), their performance and activities. At the end of the course the students will organize a workshop where they will present publicly the results of their experience. Their oral and/or poster presentations will count for 40% of the final score.