

## Restoration of Hard Bottoms and Tropical Reefs: Field Work and Practice (C004390)

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.

<b>Course size</b>	<i>(nominal values; actual values may depend on programme)</i>		
<b>Credits 6.0</b>	<b>Study time 150 h</b>	<b>Contact hrs</b>	48.0h

### Course offerings in academic year 2021-2022

A (semester 1)	English	Gent
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### Lecturers in academic year 2021-2022

Cerrano, Carlo	ANCONA01	lecturer-in-charge
Coppari, Martina	ANCONA01	co-lecturer

### Offered in the following programmes in 2021-2022

	<b>crdts</b>	<b>offering</b>
<a href="#">International Master of Science in Marine Biological Resources</a>	6	A

### Teaching languages

English

### Keywords

Degraded marine habitats, habitat loss, hard bottoms, tropical reefs, restoration tools

### Position of the course

Direct and indirect human pressures on marine ecosystems are expected to increase considerably in the next few decades, leading to a serious loss of marine biodiversity and the degradation of ecosystem functioning. Since the functioning of marine ecosystems is upheld by high levels of biodiversity, the continuing loss of biodiversity will lead to the unprecedented erosion of natural capital in marine ecosystems and of the services they supply. The course aims primarily to provide students strategies and practical skills for the restoration of hard bottom habitats, for the assessment of restoration success and benefits on key ecological attributes. This course will provide suitable restoration field protocols for the selected habitats/species.

### Contents

- General introduction on restoration actions of hard bottoms habitats
- Criteria for selection of target species
- Restoration donor sites and specimens
- Selection of restoration site
- Restoration protocols (Techniques) for coralligenous
- Protocols for sponges
- Protocols for corals
- Tools for assessing restoration success of transplanted organisms and their ecological benefits on the surrounding environment

### Initial competences

Good knowledge on marine zoology, ecology and biology. SCUBA diving licence is useful, but not mandatory

### Final competences

- 1 Knowledge on the most suitable strategies for restoring degraded hard bottoms and reef habitats.
- 2 Knowledge on the best restoration techniques to be applied in the field.
- 3 Knowledge on the strategies for the monitoring of the success of restoration actions.
- 4 Knowledge on implementation plans for the scale up of restoration actions.

**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**

Demonstration, Group work, Excursion, Lecture, Integration seminar

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

end-of-term 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****Possibilities of retake in case of permanent assessment**

not applicable

**Extra information on the examination methods**

The final examination consists of a multiple-choice test open questions-response.

The students must demonstrate that they have acquired the basic knowledge presented during the course; with regard to the practical part, the student will be asked to conceptually apply the methods learned in the field to specific case studies.

**Calculation of the examination mark**

The maximum final mark is 30/30. 5 open questions will receive a maximum score of 2 for a total of 10 points. 20 multiple choice questions will count 1 score each for a total of 20.