

STUDY GUIDE

Financial tools to support estuaries restoration and conservation projects

Originally developed in the context of Creative Commons education materials created by the LIFE ADAPTA BLUES project (LIFE18 CCA/ES/001160, "Adaptation to climate change through management and restoration of European estuarine ecosystems"), coordinated by the Environmental Hydraulic Institute of the Universidad de Cantabria (IHCantabria-UC).

Organised by

University of Cantabria (UC)

1. IDENTIFYING DATA.		
• Course Name.	Financial tools to support estuaries restoration and conservation projects.	
• Coordinating University.	University of Cantabria (UC).	
• Partner Universities Involved.	-	
• Course Field(s).	Climate Change / Sustainability	
• Related Study Programme.	Course included in the University Microcredential in Adaptation Pathways through Management and Restoration of Estuarine Ecosystems (ADAPTABLUES).	
• ISCED Code.	051101. Biology 053201. Marine sciences 071201. Environmental engineering 073202. Civil engineering	
• SDG.	SDG 04. Quality education SDG 13. Climate action SDG 14. Life below water	
• Study Level.	MECU 7 (Master or 240 ECTS Degree)	
• EUNICE Key Competencies	Problem solving	Strongly
	Teamworking	NOT AT ALL
	Communication	NOT AT ALL
	Self-management	Strongly
	Cognitive flexibility	Moderately
	Digital competence	Moderately
	Technical competence	Strongly
	Global intercultural competence	NOT AT ALL

• Number of ECTS credits allocated.	2 ECTS.
• Mode of Delivery.	Online self-study.
• Language of Instruction.	English, with subtitles in Spanish, German and Portuguese
• Course Dates.	03.10.2025 – 19.12.2025 (October 3 rd , 2025 – December 19 th , 2025).
• Precise Schedule of the Lectures.	The course can be attended from the beginning of October until the mid of December 2025 at any time. Course materials and assessment forms are fully online and can be checked at any point. Lectures are asynchronous and can be reviewed at any time.

• Key Words.	Climate change, Ecosystem services, Nature-based Solutions, Financial services.
• Catchy Phrase.	

• Prerequisites and co-requisites.	No previous requirements established.
• Number of EUNICE students that can attend the Course.	Unlimited.
• Course inscription procedure(s).	Course inscription through the EUNICE MOOC platform available here. The course is free of charge.

2. CONTACT DETAILS.

• Department.	Environmental Hydraulics Institute (IHCantabria).
• Name of Lecturer.	Prof. José A Juanes (Coordinator), Dr. Maria Recio (Director)
• E-mail.	juanesj@unican.es reciom@unican.es
• Other Lecturers.	Academic staff from UC-IHCantabria in charge of this course: <ul style="list-style-type: none"> • Dr. Saúl Torres • Dr. Pedro Díaz-Simal • Prof. Íñigo Losada International advisors from AdaptaBlues project: <ul style="list-style-type: none"> • Prof. Laura Airolti (University of Bologna) • Max Ricker (The Nature Conservancy) • Dr. Borja G. Reguero (University of California) External contributors from the AdaptaBlues project: <ul style="list-style-type: none"> • Dr. Mike Beck (University of California)

3. COURSE CONTENT.

Teaching materials of this MOOC were co-created, under creative commons licence, in the *AdaptaBlues project "Adaptation to climate change through management and restoration of European estuarine ecosystems"*, funded by the EU LIFE programme (LIFE18 CC/ES/001160) and developed through the collaboration of academics and researchers from the Institute of Environmental Hydraulics of the University of Cantabria, coordinator of the project, and the University of Coimbra.

The course delves into financial tools to support estuarine restoration and conservation. One of the main barriers we have to face is trying to find out what are the sources of funding associated with

conservation and restoration when we relate them to adaptation in coastal areas. This course will cover a series of essential topics to overcome these barriers.

4. LEARNING OUTCOMES.

- Students will learn about types of adaptation and their limitations and barriers.
- Students will be introduced to the different strategies to climate change adaptation, and how is possible to link conservation of coastal areas with adaptation goals.
- Students will be introduced to the methods of valuation of the economic value of ecosystem services.
- Students will understand how to incentivize and fund the implementation of Nature-based solutions.
- Students will discover the value of the insurance products in restoring and maintaining estuarine ecosystem services.

5. OBJECTIVES.

This course aims to analyse the financing of conservation and restoration in the context of adaptation in coastal areas.

6. COURSE ORGANISATION.

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| 1. | Strategies to climate change adaptation through conservation. |
| 2. | Economic value of ecosystem services. |
| 3. | Incentivizing, financing and governing Nature-based Solutions. |
| 4. | Types of financial services: Insurances. |

LEARNING RESOURCES AND TOOLS.

The learning resources and assessment tools of the course are available at the UC Moodle Platform.

PLANNED LEARNING ACTIVITIES AND TEACHING METHODS.

Students will have access to video materials, written course contents, and automatic online evaluation tests in UC Moodle online environment. Students can review the materials and do the assessments at their own pace during the period of course delivery since. The course is asynchronous and can be reviewed at any time. Students' activity in UC Moodle is expected to consist of the following:

- Watching the video materials available on the course site.

- Reading and familiarization with the text materials available on the course site.
- Taking the evaluation tests that measure students' knowledge and skills in content areas.

The course is completed by independently working and by taking the exams which consists of multiple-choice questions covering the course topics. The course is graded "passed" or "failed". As an additional optional activity, each sub-topic will have a forum for students to share their questions, discussions or doubts. It will be moderated by the UC Office, with input from professors when necessary. All students are free to participate and post their queries.

7. ASSESSMENT METHODS, CRITERIA AND PERIOD.

To complete the course, you must:

- View the materials in each Module, going through all Sub-Topics.
- Correctly answer at least 90% of each of the Automatic Online Assessments.
- Complete the post-survey of the course. This will take approximately 3 minutes.

Upon fulfillment of the course completion criteria, you will be able to download the Course Certificate directly from EUNICE Moodle platform.

OBSERVATIONS.

8. BIBLIOGRAPHY AND TEACHING MATERIALS.

Teaching materials are available on the course at the dedicated EUNICE Moodle platform. Literature recommendations are also outlined in the course contents.