

FINAL EXAM

Once you have completed all four MOOCs, you are eligible to take an online exam in order to get the certificate of achievement.

However, each MOOC may provide its own certificate of achievement for those learners who are interested in each of the courses separately.

<https://trasmare.ihcantabria.com/>



AT A GLANCE

- **MODALITY:** Online itinerary (4 MOOCs)
- **DURATION:** About 20/30 hours per MOOC
- **FEE:** Free courses and certificates
- **LANGUAGES:** Mostly English, with English, Spanish, Italian and Portuguese subtitles
- **PREREQUISITES:** None
- **TECHNICAL REQUIREMENTS:** Computer with internet connectivity

ENVIRONMENTAL HYDRAULICS INSTITUTE OF CANTABRIA

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TRASMARES

Specialized **TR**aining on **A**ppplied Tools for
Sustainable **MAR**ine **E**cosystems

ENVIRONMENTAL HYDRAULICS
INSTITUTE OF CANTABRIA



Marine ecosystems are an essential component of the Earth: a source of biodiversity, food and life; as well as one of the most biologically diverse. However, they are undervalued and probably largely unknown.

TRAINING ITINERARY

This training programme offers a fast-track learning path for people who want to develop specific skills in sustainable marine ecosystems through a multidisciplinary, practical and integrated approach.

The **TRASMARES** itinerary is based on four Massive Open Online Courses (MOOCs) that will allow students to delve deeper into marine ecosystems to understand their functions, benefits and main threats. The goal is to provide world-class knowledge on new methodologies, procedures and tools for the conservation and sustainable management of marine and coastal ecosystems in the context of climate change.

SCIENTIFIC EXCELLENCE

An unparalleled partnership between three European Higher Education Institutions is responsible for the scientific soundness of this ambitious training initiative: Universidad de Cantabria (Spain), Università di Bologna (Italy), and Universidade de Coimbra (Portugal) with Telefonica Educación Digital (TED), a leading international provider of high impact life-long learning solutions.

This alliance guarantees the participation of a wide range of experts in diverse and complementary fields, including nature conservation, ecosystems' vulnerability, nature-based solutions and land-sea-ocean interactions.

WHAT WILL YOU LEARN?

The training programme consists of four courses:

MOOC 1. INNOVATIVE METHODS TO ASSESS THE DISTRIBUTION OF MARINE ECOSYSTEMS

1. Introduction to marine ecosystems
2. Marine ecosystem-characterization
3. Functions, services and benefits of marine ecosystems
4. Direct approaches to characterize the distribution of ecosystems
5. Indirect approaches to characterize the distribution of ecosystems

MOOC 3. NATURE-BASED SOLUTIONS AS PROACTIVE APPROACHES TO CONSERVATION

1. Introduction to sustainable management of marine ecosystems and resources
2. From species to ecosystem conservation
3. Habitat restoration and its value as Nature based Solutions
4. Greening of man-made structures to support nature in the urban ocean
5. Incentivizing, financing and governing Nature based Solutions

MOOC 2. HUMAN ACTIVITIES AND VULNERABILITY OF MARINE ECOSYSTEMS

1. Introduction to marine ecosystems
2. Marine ecosystem-characterization
3. Functions, services and benefits of marine ecosystems
4. Direct approaches to characterize the distribution of ecosystems
5. Indirect approaches to characterize the distribution of ecosystems

MOOC 4. LAND-SEA-OCEAN INTERACTIONS: FROM COASTAL MANAGEMENT TO MARITIME SPATIAL PLANNING

1. Legal framework: from the Romans to the present day
2. Conceptual framework
3. Integrated Coastal Zone Management (ICZM)
4. Marine Spatial Planning processes
5. Marine Spatial Planning in practice