Vak: Specialisation Ocean Energy (Lisbon) credits: 30

Vakcode	RWVM23SOE
Naam	Specialisation Ocean Energy (Lisbon)
Studiejaar	2026-2027
ECTS credits	30
Taal	Engels
Coördinator	H.M. Moesker
Werkvormen	Onderwijs
Toetsen	Spec. Ocean Energy - Overige toetsing

Leeruitkomsten

The integrative mandatory module (Project):

- Project in Marine Renewable Energies

The objective of this curricular unit is to provide the students with the background and methodologies of multidisciplinary aspects associated with the various marine renewable energy technologies and bring into practice the specialised knowledge on marine energies in a case study. The objective will be achieved through formal lectures, tutorials, and a project.

Optional 6 ECTS curricular unit:
One curricular unit from IST Master's curricular plans. The selection is subject to approval. Among potential eligible modules are Engineering Project Management, Risk Assessment and Management in Projects, Technology-Based Entrepreneurship, Energy Systems Optimization, Power Electronics for Renewable Energy, Strategic and Marketing Management, Topics on Batteries, Design of Ship Structures, Risk Analysis, or Equipment and Systems Reliability + Systems Maintainability and Availability.

Inhoud

Ocean energy (also referred to as Marine energy or marine power) refers to the energy carried by ocean waves and tides. It focuses on the physical mechanisms in the ocean (waves, tides and currents), hydrodynamic modelling of ocean energy systems and on the electro-mechanical equipment used in ocean energy systems, as well as its management, maintenance and control. Furthermore, it also provides some focus on offshore wind energy.

The EUREC EMRE specialisation at IST/UL comprises 5 modules. Four mandatory ones and one elective module within the vast amount of courses taught at IST/UL. Three modules are related to the technical aspects of offshore wind systems, wave energy systems, and tidal/current energy systems. Furthermore, there is an integrative module, the Project in Marine Renewable Energy, where the students select a project in the area of their interest and apply the knowledge acquired during the specialisation. Finally, an elective course of your interest.

Opgenomen in opleiding(en)

European Master in Renewable Energy

School(s)

Engineering, Life Sciences & ICT

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