

ECOHYD
Erasmus Mundus Master of Science in Ecohydrology

Duration: 2 years

Course description:

Throughout the world estuaries and coastal waters have experienced environmental degradation. Present remedial measures based on engineering and technological fix have been unable to restore the ecological processes and reinstate the full beneficial functions and services of degraded aquatic ecosystems. This Master course will provide to students a profound knowledge and understanding of the ecological processes that support the resilience of aquatic ecosystems, and how these processes can be harmonized with engineering infrastructures at the river basin and used to sustain aquatic ecosystems quality and revert degradation.

The ERASMUS MUNDUS MASTER OF SCIENCE IN ECOHYDROLOGY (ECOHYD) gathers the expertise from a consortium constituted to include complementary expertises from four European HEI (Portugal, Poland, Netherlands and Germany) and one third-country university (Argentina). Expertise on estuarine and coastal ecosystems ecohydrology will be provided by the University of Algarve (Portugal); expertise in freshwater and urban ecohydrology will be provided by the University of Lodz (Poland); and the engineering and management components will be provided by UNESCO-IHE (Netherlands) and University of Kiel (Germany). The course will have a duration of 2 years and will be provided in English. The Course will start with two cohorts of 15 students, at the University of Algarve and at the University of Lodz. This first part of the Master Programme will count as 50 ECTS. Students will spend a second mobility period at the University of La Plata or the Institute of Oceanography and Fisheries (Croatia), where students will understand and evaluate the geographical and climatic differences needed to consider in the development of Ecohydrology solutions. This component of the formation counts as 10 ECTS. Then students will carry out a third mobility period at the University of Kiel or IHE Delft to acquire competences in aquatic management and aquatic engineering. This component counts as 30 ECTS. Course will be completed with the realization of a Master Thesis, representing 30 ECTS that students develop in chosen European HEI of the consortium. Students with positive evaluation after completion of all requirements will be granted a multiple degree by the Consortium Institutions.

Website: <http://www.ecohyd.org>

Partners:

UNIVERSITY OF THE ALGARVE, Portugal (Co-ordinating institution)
UNIVERSITY OF LODZ, Poland
CHRISTIAN ALBRECHT UNIVERSITY KIEL, Germany
UNESCO-IHE INSTITUTE FOR WATER EDUCATION, Netherlands
NATIONAL UNIVERSITY OF LA PLATA, Argentina

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