

Development of Regional Joint Master Program in Maritime Environmental Protection and Management - MEP&M -

Presentation of four MEP&M-related masters delivered in the University of Cádiz

Alfredo Fernández Enríquez UNIVERSITY OF CÁDIZ March 30, 2021

Virtual meeting via Zoom application

This project has been funded with support from the European Commission. This presentation reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.



















University of Cádiz (Spain) European University of the Seas (SEA-EU) Campus of International Excellence of the Sea (CEI-Mar)







The University of Cádiz (UCA) is the coordinator of the European University of the Seas. Along with Universities from Bretagne, Kiel, Gdansk, Split, Malta, and 32 associated partners, the SEA-EU unifies 68 faculties, 117 research institutes and three International Clusters of Excellence in one of the world's leading institutions for marine environment management.

The UCA also coordinates the Campus of International Excellence of the Sea (CEI-Mar), composed by with seven research institutions and seven Andalusian, Portuguese and Moroccan universities located around the Gibraltar Strait.

















Four Campuses focused in two bays, Cádiz and Algeciras

Cádiz province, named after the city founded 3.000 years ago by Phoenicians as a strategic trade port, has an remarkable link with the sea currently reinforced with three shipbuilding factories in the bay of Cádiz, and one of the main European maritime ports in the bay of Algeciras.

From the 15th century there were in Cádiz a College of Pilots, followed by the creation of the Nautical Cathedra in 1682. Between 1717 and 1818 were created the Academy of Marine Guards Knights, the Astronomical Observatory, the Royal Navy College of Surgery and the first School of Commerce of Spain. The UCA was founded in 1979 having 6.000 students. Nowadays, they are 22.000.





















Andalusian Higher Center for Marine Studies

Located on the Puerto Real Campus, it was created in 1992 bringing together three schools and faculties related to the sea in the University of Cádiz: Naval Technical Engineering, Nautical Sciences, and Marine and Environmental Sciences.



















Andalusian Higher Center for Marine Studies

Four MEP&M-related masters are delivered here:

Integrated Coastal Zone Management

Environmental Conservation and Management

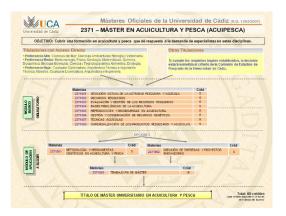
Maritime Transport

Aquaculture and fisheries

























Integrated Coastal Zone Management (ICZM)

Integrated and interdisciplinary management of the coastal zone, dealing with activities and groups involved to achieve coastal sustainability, and providing technical support for companies and public institutions through consulting and preparation of coastal management plans and projects.

- Integrated management for the sustainability of natural and anthropized coastal areas
- Structural elements and processes of the ICZM
- IMCZ plans and projects: models, formulation and design
- Ecosystem foundations for ICZM
- Coastal natural hazard assessment
- Geographic Information Systems (GIS) applied to ICZM
- Marine Spatial Planning (MSP)
- Integrated analysis and diagnosis of the pollution in coastal areas

















Environmental Conservation and Management

Remarkable practical orientation, applied to research in the field of conservation and management of the natural environment, and the management and environmental conservation in administrative levels and private companies.

- Ecosystem Based Management of the Nature Environment
- Species Conservation and Management
- Management of Natural Protected Areas
- Environmental Management and the Socioeconomic context
- Management and Conservation of Marine and Coastal Ecosystems, including:
 - Biodiversity conservation in deep ecosystems
 - Water chemical quality standards. Sewage treatment
 - International and European regulatory framework for marine and coastal environment
 - Management of marine mineral and energy resources



















Maritime Transport

Comprehends contents about the administrative legal protection of the marine environment by the International Maritime Conventions (UNCLOS, SOLAS, MARPOL, STCW and others), as well as about maritime administration, port logistics, technical equipment and maintenance management

- Maritime law and administration
- International agreements
- Maritime inspection
- Transport and logistics engineering
- Management of the maritime port business
- Integrated risk management and analysis systems
- Transport and port sector economics
- Telematics networks
- Underwater acoustics



















Aquaculture and fisheries (ACUIPESCA)

Pointing to provide expertise in the field of exploitation of living marine resources, addressed to their study and management in an integrated respond to the demands that society currently poses, ACUIPESCA is focused in biology of marine species, fishing and farming systems, capture, production, environmental, economic and commercial management, and new technologies applied

- Current situation of the fishing and aquaculture activity
- Fishing resources
- Evaluation and management of fishery resources
- Physiological bases of the aquaculture
- Reproduction and biosecurity in aquaculture
- Management and conservation of genetic resources
- Aquaculture techniques
- Commercialization of the fishing and aquaculture products

















Conclusion

4 MSc

...which together details almost any anthropic, environmental, economic and legal aspects in marine space, both widely and specifically

Our students are degree coming from: Biochemistry; Biology; Biotechnology; Business Administration and Management; Chemistry; Economy; Engineering; Environmental Sciences; Food Science and Technology; Geography; Geology; Law; Marine Sciences; Mathematics; Molecular Biology; Physics; Political Science; Public Administration and Management; Sociology, and others.

We would be happy to host the virtual visit to our university any day during the week of 17-21 of May 2021 (the only feasible dates as previously stated) Thank you for your understanding!

















Thank you for the attention

















