

Second-level Master in Marine Sciences: Ocean Physics and Technology

The second-level master in ocean physics and technology is a joint degree between University of Naples Parthenope and University of Bologna, Italy, in cooperation with the Italian Hydrographic Institute of the Navy. Its aim is to advance education in oceanography in order to face the challenges of the sustainable management of ocean resources and the development of marine activities. Deadline for applications is 30 September 2016.

The [new Master in 'Ocean Physics and Technology'](#) wants to advance education in oceanography in order to face the challenges of the sustainable management of ocean resources and the development of marine activities. The specific high level training offered by the Master is centred around the numerical methods of simulating the ocean environment, ocean monitoring and forecasting.

Traditionally oceanography has concentrated on the open ocean currents and only recently it has connected with the continental margins and the coasts, developing ocean weather predictions, connecting surface waves with deep currents. On the other hand, engineering has traditionally developed in the coastal areas and in the transport sector. It is from this new knowledge merging that we will be able to find new solutions to global change impacts on marine ecosystem and coastal protection, to improve efficiency in renewable energy extraction from sea currents.

The development of the maritime industry and economy, the security of coastal borders, the safety of maritime traffic, the impact of climate change on oceans and coasts, the extraction of renewable energy from the sea are only few of the applied fields where a background in ocean physics and technology is required. Connecting basic science and technology/engineering will bring new technological advancements in the fields of ocean resources exploitation, maritime transport efficiency and safety, operational oceanography, marine ecosystem health and coastal protection.