

# UNDERGRADUATE PROGRAM IN OCEANOLOGY

## PROGRAM OBJECTIVES

The "Bachelor of Science in Oceanology" program aims to provide human resources with a high level of competence in Oceanology, in Meteorology, or/and in Hydrology. The graduates are expected to develop a solid knowledge in Earth Science, to be able to apply their scientific knowledge and skills in career development in technology and services in Oceanology, Meteorology, and Hydrology, and also to be able to carry out a fruitful scientific research career in these fields and in other related ones.

The objectives of the program are to provide graduates with a broad understanding of Earth Sciences and high ability in scientific research and application. The objectives are described as follows:

- a) General knowledge block: Graduates are expected to develop advanced knowledge in mathematics and natural sciences, and basic knowledge in philosophy and socio-economics.
- b) Background knowledge block: Graduates are expected to develop basic knowledge in physical, dynamical and biogeochemical processes in the oceanic and the atmospheric environments of the earth system.
- c) Advanced knowledge block: Graduates are expected to develop advanced knowledge specialized in Oceanology, Meteorology, and/or Hydrology, and to be able to evaluate and solve specific problems in these fields.
- d) Graduates are also expected to develop skills in field surveys, laboratory working, data processing, numerical simulations, and soft skills in group working, project development and foreign languages.
- e) Graduates are expected to maintain a good working attitude and manners, self development with social and environmental activities during the formation.
- f) Graduates are expected to develop professional skills and ethics for future activities in the working environment and in life.