ANTHROPOGENIC IMPACTS ON THE COAST

Credits: 5,0 ECTS

Brief description of contents:

- Advection-diffusion processes on the coast (I)
- Advection-diffusion processes on the coast (II)
- Anthropogenic impact of coastal engineering projects and techniques
- Sources and classes of pollutants in coastal areas
- Processes which determine the environmental behaviour of xenobiotics in the marine environment
- Toxicological effects of pollutants on marine species of commercial interest
- Eutrophication
- Red and green tides
- Anthropogenic impact on angiosperm meadows
- Induced natural risks: erosion and coastal flooding
- Determination of coastal ecosystem vulnerability
- Discharge models: case studies of discharges derived from oil, faecal… and impact of offshore aquaculture (practical classes)
- Coastal vulnerability indices (practical classes)
- Coastal change assessment with GIS (I) (practical classes)
- Coastal change assessment with GIS (II) (practical classes)
- Analytical determination of micropollutants in marine waters (practical classes)
- Distribution and reactivity of pollutants in aquatic systems through the EQuilibrium Criterion (EQC) models (practical classes)
- Effects of intensive agriculture on meadows and multi-trophic systems (I) (practical classes)
- Effects of intensive agriculture on meadows and multi-trophic systems (II) (practical classes)

Evaluation system:

SYSTEM	WEIGHT
Written projects and reports	50 – 70
Presentation of exercises, topics and projects	30 – 50