

ECOSYSTEM OCEANOGRAPHY

Credits: 5,0 ECTS

Brief description of contents:

- Introduction: the pelagic system and its hydrodynamic interactions. Turbulence and small-scale interactions
- Mesoscale structures and biological responses
- Large-scale patterns and global oceanography
- Plankton size structure: ecological and biogeochemical implications
- Trophic analysis in pelagic ecosystems
- The role of pelagic ecosystems in the global biogeochemical cycles
- Regional oceanography in the Gulf of Cádiz, Strait of Gibraltar and Alboran sea
- Applications of remote sensing in biological oceanography (practical classes)
- Methods related to plankton size structure analysis. Case studies: analysis of oceanographic datasets (practical classes)

Evaluation system:

	SYSTEM	WEIGHT
	Written or oral exams	50 – 70
	Written projects and reports	10 – 30
	Presentation of exercises, topics and projects	10 – 30