

FUNDAMENTALS OF LIMNOLOGY FOR WATER MANAGEMENT

Responsible professor: JOSÉ ÁNGEL GÁLVEZ LORENTE

Credits: 2,5 ECTS

Brief description of the contents:

- Continental aquatic ecosystems. Genesis and morphometry
- Light in aquatic ecosystems
- Stratification and temperature cycling
- Dissolved oxygen and salinity in continental waters
- Inorganic carbon and nutrients
- Classification and functional features of planktonic and benthic communities
- Analysis of the structure and functionality of the communities
- River and reservoir limnology

Detailed programme:

LEARNING BLOCK	TOPIC OR ACTIVITY
B1	Limnology. Water cycle. Classification and morphometry of continental aquatic systems.
B2	Light in aquatic ecosystems.
B3	Heat and temperature cycling.
B4	Dissolved oxygen. Salinity.
B5	Inorganic carbon. Nutrients.
B6	Classification and functional features of the planktonic community.
B7	Classification and functional features of the benthic community.
B8	Analysis of the structure and functionality of the communities
B9	Continental aquatic ecosystems.
AAD	Visit to the Aquatic Ecology station of EMASESA and to "El Gergal" dam.

Evaluation system:

SYSTEM	WEIGHT
Final exam	40 – 60
Written essays	40 – 60
Presentation of exercises, topics and projects	
Laboratory practices and/or practice report	