MANAGEMENT OF AQUATIC ECOSYSTEMS

Responsible professor: ANDRÉS COZAR CABAÑAS
Credits: 5,0 ECTS

Brief description of the contents:

- Ecosystem principles for the management of aquatic systems
- Organisation, dynamism and forcing of aquatic ecosystems
- Surveillance and monitoring strategy for aquatic ecosystems
- Integration and analysis of information
- Management of temporary pools
- Management of wetlands
- Management of aquatic invasive species
- River restoration, rehabilitation
- Eutrophication

Detailed programme:

LEARNING BLOCK	TOPIC OR ACTIVITY
B1	Ecosystem principles for the management of aquatic systems.
B2	Organisation, dynamism and forcing of aquatic ecosystems.
B3	Practical: Organisation and dynamism of aquatic ecosystems I.
B4	Practical: Organisation and dynamism of aquatic ecosystems II.
B5	Surveillance and monitoring strategy for aquatic ecosystems I.
B6	Surveillance and monitoring strategy for aquatic ecosystems II.
B7	Integration and analysis of information.
B8	Practical: Integration and analysis of information: food webs.
B9	Practical: Integration and analysis of information: simulations and projections with dynamic models I.
B10	Practical: Integration and analysis of information: simulations and projections with dynamic models II.
B11	Management of coastal wetlands.
B12	Management of temporary pools.
B13	Management of biological invasions I: from the introduction of invasive species to the selection of feasible actions.
B14	Management of biological invasions II: control methods in the field.
B15	Eutrophication: causes and effects.
B16	Biogeochemical manifestations of eutrophication.
B17	Preventive and corrective measures for eutrophication.
B18	Harmful cyanobacterial proliferation.
AAD	Visit to *Los Tollos* lagoon.

Evaluation system:

SYSTEM	WEIGHT
Final exam	40 – 60
Written essays	40 – 60
Presentation of exercises, topics and projects	0 – 30
Laboratory practices and/or practice report	0 – 30