

HYDROLOGICAL PLANNING

Responsible professor: **SANTIAGO GARCÍA LÓPEZ**

Credits: **2,5 ECTS**

Brief description of the contents:

- Institutional, legal and socioeconomic framework in hydrological planning
- Hydrological planning in the Water Framework Directive
- Decision support systems in hydrological planning
- Extreme situations: drought planning
- Extreme situations: high water level and flood planning

Detailed programme:

LEARNING BLOCK	TOPIC OR ACTIVITY
B1	Hydrological planning. Concept, objectives and legal framework.
B2	Water uses and needs assessment.
B3	The Water Footprint. Case study.
B4	Extreme situation planning: floods.
B5	Extreme situation planning: droughts.
B6	Water resource system management: decision support system in hydrological planning.
B7	Management simulation model SIMGES. Case study I.
B8	Management simulation model SIMGES. Case study II.
B9	GESCAL model for water quality simulations in water resource systems. Case study.
AAD	Case study.

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