

HYDRAULIC WORKS: REGULATION AND CATCHMENT

Responsible professor: **JUAN JOSÉ MUÑOS PÉREZ**

Credits: **2,5 ECTS**

Brief description of the contents:

- Hydraulic works: regulation and catchment
- Loose material dams
- Concrete dams: gravity and arch
- Channels, pressure pipes and surge tanks
- Auscultation: exploitation, surveillance and control
- Hydroelectric exploitation of water basins
- Subterranean water catchment. Pumping tests

Detailed programme:

LEARNING BLOCK	TOPIC OR ACTIVITY
B1	Introduction to hydraulic works: consumption.
B2	Loose material dams.
B3	Concrete dams: gravity and arch.
B4	Channels, pressure pipes and surge tanks.
B5	Auscultation: exploitation, surveillance and control.
B6	Hydroelectric exploitation of water basins.
B7	Subterranean water catchment.
B8	Pumping tests.
B9	Case studies: subterranean water catchment and pumping tests.
AAD	Visit to “ <i>Guadalcacín</i> ” dam.

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