

Degree	Type	Year
2503710 Geography, Environmental Management and Spatial Planning	OT	4

Contact

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Teachers

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Teaching groups languages

You can view this information at the [end](#) of this document.

Prerequisites

None

Objectives and Contextualisation

This subject offers the tools for the water planning and management in a Mediterranean context. For more details, see contents.

Learning Outcomes

1. CM06 (Competence) Carry out team work that promotes commitment to the team, the habit of collaboration and joint problem-solving skills.
2. KM38 (Knowledge) Define the planning and management of the water cycle and/or energy management from a physical, socio-economic and systemic point of view.
3. SM31 (Skill) Use instruments and mechanisms for the management and planning of water resources and energy resources in a specific practical case.

Content

1. Introduction to the integral water cycle
2. Application of GIS in the planning and management of water
3. Planning and evaluation of water systems
4. Wastewater management and reuse
5. Drinking water management
6. Economic water management

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Field work	8.5	0.34	CM06, SM31
Lectures	25	1	CM06, KM38, SM31
Practical sessions (PAUL)	16.5	0.66	CM06, SM31
Type: Supervised			
Practical exercises	20	0.8	CM06, SM31
Tutorials	5	0.2	CM06, KM38, SM31
Type: Autonomous			
Lab	15	0.6	
Oral speech	5	0.2	
Report	35	1.4	
Report field work	20	0.8	

Docent methodology will be lectures, practices and field work.

At the beginning of the course, the teacher will explain the protocol of measures and good practices for field trips.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Assessment

Continous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Ecological state assessment	25%	0	0	CM06, SM31

GIS practice	10%	0	0	CM06, SM31
Project	40%	0	0	CM06
School curriculum plan/project	25%	0	0	KM38

The evaluation of the subject will be based on the following evidence:

- GIS practice (10%)

A specific case to be carried out with GIS is presented: Finding a body of water and associating and calculating the percentages and/or surface of its uses and land covers. Export this map with topographic base and orthophotomap.

- Assessment of the ecological state (25%)

There will be a field trip to the Besòs or Tordera basin where the students will have to make an assessment of the ecological state of a specific stretch of river. The teaching staff in the theoretical part will provide tools so that the students themselves are in charge of making their own assessment.

- Preparation and execution of a school curriculum plan/project (25%)

The students will have to develop a didactic unit aimed at a specific audience (primary, secondary and/or citizenship education). In this didactic unit you will have to demonstrate tools so that the target audience is familiar with some topic related to river spaces and their management in order to create environmental awareness of the territory. Each group must prepare and execute its didactic unit or project as a class group.

- Group work: Conflict planning (40%)

Group work: the students, in groups, will have to search for a problem related to water planning and management, detect the main actors involved, identify the problems and create a series of solutions that can be applied to to which the majority of the actors involved benefit from it. This work will be divided into an oral presentation (20%) and a written work (20%).

Evaluation criteria

Deliveries received outside the period stipulated in the Virtual Campus will be considered as "Not Presented", except in duly justified cases.

In the event that two of the evaluable activities havenot been presented or have been suspended (grade below 5), students may opt for a make-up exam. The final mark after the make-up exam cannot be higher than 7. Students who want to choose to raise their mark can also present themselves, in no case will it mean a reduction of the mark they already have.

Not Assessable

Students will receive the grade of "Not assessable" as long as they have not delivered more than 30% of the assessment activities

Review of grades

At the time of carrying out each assessment activity, the teaching staff will inform the students (Moodle) of the procedure and date of review of the qualifications.

Unique assessment

This subject does not provide for the single assessment system.

Bibliography

At the beginning will be gives the reading list

Software

Office and QGIS

Language list

Name	Group	Language	Semester	Turn
(PAUL) Classroom practices	1	Catalan	second semester	morning-mixed
(PCAM) Field practices	1	Catalan	second semester	morning-mixed
(TE) Theory	1	Catalan	second semester	morning-mixed