

**Regional Water Planning**

Code: 44475  
ECTS Credits: 6

Degree	Type	Year	Semester
4317520 Territorial Studies and Planning	OT	0	2

## Contact

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## Teaching groups languages

You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject. Please note that this information is provisional until 30 November 2023.

## Prerequisites

English read, spoken and written

## Objectives and Contextualisation

This is a compulsory subject of 6 ECTS credits of the Master's in Territorial Studies and Planning, which is carried out in a shared form with a similar subject of the Master's in Interdisciplinary Studies in Environmental, Economic and Social Sustainability.

The subject aims to present students with current debates on the management of water resources, emphasizing its territorial dimension.

The course will pay special attention to the different water management models (supply-demand; public-private; centralized-decentralized); the different technologies used; its environmental, social and territorial impacts and the unequal power relations regarding the water cycle. The subject addresses these issues at different scales and with case studies from different parts of the planet.

Through readings of selected materials, lectures and class presentations and discussions, students are expected to gain a basic and robust knowledge of water management.

## Learning Outcomes

- CA29 (Competence) Assess how different genders use and consume water in the home.
- CA30 (Competence) Observe the social and economic imbalances of different water management models in relation to urban planning.
- KA29 (Knowledge) Name different models of water and energy management in urban planning.

- KA30 (Knowledge) Recognise and understand the main territorial, urban and socio-environmental conflicts linked to water and energy management.
- KA31 (Knowledge) Devise and outline new forms of water and energy governance.
- SA25 (Skill) Document water management models in different socio-economic situations based on spatial and territorial considerations.
- SA26 (Skill) Evaluate demand management using quantitative methods.

## Content

### 1. Introduction: planning, water and energy

- The water-energy nexus
- Water planning and management
- From the hydrological cycle to the hydrosocial cycle
- Virtual water

### 2. Water governance and the politics of scale

- Scalar effects and multilevel governance
- Centralized and decentralized models in water management
- Participatory water governance
- Water and risk

### 3. Water supply

- Large scale conventional hydraulic technology: reservoirs and water transfers
- Large scale alternative hydraulic technology: desalination and water reuse

### 4. Water demand

- Demand management
- Decentralized water resources: groundwater, greywater and rainwater
- Water and tourism

### 5. Commodification, social protection and emancipation

- Privatization and municipalization
- Water poverty and water as a social need
- Integrated water management in cities: the liberal vs the emancipatory view

## Methodology

The following activities will be carried out:

a) Lectures. In some sessions we will have an invited speaker.

b) Seminars: a brief introduction to the specific topic given by the instructor followed by the presentation of assigned readings by students, the group discussion of the main points discussed in the readings, and a final conclusion coordinated by the instructor. Students are expected to read the assigned materials; prepare and guide discussions and participate actively in the debates.

c) Exercises: some practical exercise will be carried out at class, usually using cooperative work.

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.

## Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Master classes	15	0.6	CA29, CA30, KA29, KA30, KA31, SA25, SA26, CA29
Practical exercises	10	0.4	CA29, CA30, KA30, SA26, CA29
Seminars	16	0.64	CA29, CA30, KA29, KA30, KA31, CA29
Type: Supervised			
Assigned readings	10	0.4	CA29, CA30, KA29, KA30, KA31, SA25, CA29
Coures work	14	0.56	CA29, CA30, SA25, SA26, CA29
Tutrships	1	0.04	
Type: Autonomous			
Information research	20	0.8	SA25, SA26, SA25
Personal study	25	1	CA30, KA29, KA30, KA31, CA30
Reading	35	1.4	CA30, KA29, KA30, KA31, CA30
Tutorship	1	0.04	

## Assessment

- Class participation (20%): on the basis of practical exercises carried out at class.
- Oral presenation (30%): from the assigned readings.
- Course work (50%): the instructor will give the details at the beginning of the course.

Not assessable

Anyone who has not completed and delivered the coursework is considered non-evaluable.

Undelivered activities will be graded as zero (0).

Plagiarism

In the event that the student commits any irregularity that could lead to a significant variation in the grade of an assessment act, this assessment act will be graded with 0, regardless of the disciplinary process that may be instituted. In the event that several irregularities occur in the evaluation acts of the same subject, the final grade for this subject will be 0.

Single assessment

Students can opt for the single assessment process by making, at the end of the course, the oral presentation of three interrelated readings from among those suggested by the teaching staff (50% of the final grade). On

that same date, students who opt for the single assessment must hand in the course work (50% of the final grade).

## Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Class participation	20%	0	0	CA30, KA29, KA30, KA31, SA26
Course work	50%	0	0	CA29, CA30, KA29, KA30, KA31, SA25, SA26
Oral presentation	30%	3	0.12	CA30, KA29, KA30, KA31

## Bibliography

- Bakker K. 2010. Privatizing Water. Governance Failure and the World's Urban Water Crisis. Ithaca, NY: Cornell Univ. Press
- Boelens, R., Perreault, T. and Vos, J. (eds). 2018. Water Justice. Cambridge: Cambridge University Press.
- Estevan, A.; Naredo, J. M. 2004. Ideas y propuestas para una nueva política del agua en España. Bilbao: Bakeaz.
- Gandy, M. 2014. The fabric of Space. Water, Modernity and the Urban Imagination. Cambridge MA: The MIT Press
- Poch, M. 2021. Aigua 3.0 a Catalunya. Una visió calidoscòpica. Girona: Curbet Edicions.
- Sanjuán, M. 2005. Gestió local de l'aigua. Barcelona: Fundació Pi i Sunyer.
- Sedlak, D. 2014. Water 4.0. NewHaven, Conn: Yale University Press
- Sultana, F.; Loftus, A. (eds). 2012. The Right to Water. Politics, governance and social struggles. London: Earthscan.
- Swyngedouw, E. 2015 Liquid Power. Contested Hydro-Modernities in Twentieth Century Spain. Cambridge, MA: The MIT Press

## Software

None of specific