Regional Water Planning

Code: 44475
ECTS Credits: 6

2024/2025

Degree	Type	Year
4317520 Territorial Studies and Planning	OT	0

Contact

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Teachers

Hyerim Yoon

Teaching groups languages

You can view this information at the end of this document.

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

1. CA29 (Competence) Assess how different genders use and consume water in the home.
2. CA30 (Competence) Observe the social and economic imbalances of different water management models in relation to urban planning.
3. KA29 (Knowledge) Name different models of water and energy management in urban planning.
4. KA30 (Knowledge) Recognise and understand the main territorial, urban and socio-environmental conflicts linked to water and energy management.
5. KA31 (Knowledge) Devise and outline new forms of water and energy governance.
6. SA25 (Skill) Document water management models in different socio-economic situations based on spatial and territorial considerations.
7. 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 cicle to the hydrosicial cicle
- 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: reservoris 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

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Master classes	15	0.6	

Practical exercices	10	0.4
Seminars	16	0.64
Type: Supervised		
Assigned readings	10	0.4
Coures work	14	0.56
Tutrships	1	0.04
Type: Autonomous		
Information research	20	0.8
Personal study	25	1
Reading	35	1.4
Tutorship	1	0.04

The following activities will be carried out:

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

b) Seminars: Each seminar session will address a specific issue of water management based on different readings (previously assigned) that the students will have to present orally to the rest of the class in groups. In each session there will be a short introduction to the subject by the teaching staff, followed by the oral presentation of the readings assigned by the students, the group discussion of the main points discussed in the readings and a final conclusion coordinated by the teaching staff. Students are expected to read the assigned materials; prepare and guide the debates and actively participate in them.

c) Exercices: 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.

Assessment

Continous Assessment Activities

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

- 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).

Recovery

Activities related to class participation and oral presentation of assigned readings are not recoverable.

In case of having failed the course work, it can be recovered by a new delivery on the date established by the teaching staff.

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: Cambride 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

Language list

Name	Group	Language	Semester	Turn
(TEm) Theory (master)	1	English	second semester	afternoon