SUBJECT TEACHING GUIDE

5207 - Water Resources

Degree in Geography and Land Planning

Academic year 2026 - 2027

1. IDENTIFYING DATA					
Degree	Degree in Geography and Land Planning			Type and Year	Compulsory. Year 3
Faculty	Faculty of Humanities				
Discipline	Geographical Fundamentals for Land Use Planning				
Course unit title and code	5207 - Water Resources				
Number of ECTS credits allocated	6	Term		Semester based (1)	
Knowledge Field	History, archaeology, geography, philosophy and humanities				
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. GEOGRAFIA, URBANISMO Y ORDENACION DEL TERRITORIO
Name of lecturer	CAROLINA GARMENDIA PEDRAJA
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Other lecturers	MARIA DE LOS REYES LUELMO LAUTENSCHLAEGER

4. OBJECTIVES
Know the consequences, both physical and environmental, of the fact that water undergoes changes of state at different rates depending on the phase it is in and its location in the different regions of the world.
Linking the physical environment with the social sphere: water availability, variability, dynamics and water quality... are all aspects that depend increasingly, either directly or indirectly, on human activity. In this regard, humans play a dual role: as agents of change and, at the same time, as victims of the changes they bring about in the hydrosphere.
Understand the problems in a multidimensional way, analysing the agents and processes intervening in water management on different scales, studying the complexity of situations and conflicts generated by the poor usage of this resource, from social, economic and political context.

6. SUBJECT PROGRAM

CONTENTS	
1	THE HYDROSPHERE AND THE WATER CYCLE
4	CONTINENTAL FRESH WATER
5	CONTINENTAL WATERS: RESOURCE AND CONFLICT OF USAGES
2	OCEANIC WATERS
3	THE OCEAN AS A RESOURCE PROVIDER: EXPLOITATION AND CONSERVATION
6	INITIATION TO INVESTIGATION WORKSHOP I
7	INITIATION TO INVESTIGATION WORKSHOP II
8	INITIATION TO INVESTIGATION WORKSHOP III
9	Final exam (written exam): The final exam includes all the content taught throughout the semester.

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessment	%
Final exam	Written exam	Yes	Yes	40,00
Practical work in group	Work	Yes	Yes	30,00
Individual practical work	Work	Yes	Yes	30,00
TOTAL				100,00

Observations

The course will be assessed on the basis of the submission of all assigned exercises (60%) and a written examination (40%). The final mark for the module will be calculated by averaging the mark for the practical component and the mark obtained in the examination. However, in order to calculate this average, IT IS ESSENTIAL TO PASS BOTH PARTS SEPARATELY. The mark that will appear on the transcript will be that obtained in the part that has been failed.
It is recommended that particular care be taken with the presentation of assignments and, in particular, with the correct use of materials (maps, graphs, tables) and rigour in citing sources and origins. Fraudulent conduct in assessment activities (plagiarism, appropriation of another person's information or information generated by AI without explicit citation, etc.) will result directly in a fail mark (0) for the course in the relevant examination session. The consideration of such cases and the disciplinary regime will be governed by the provisions of the University of Cantabria Regulations.

Observations for part-time students

The assessment and evaluation of part-time students will be carried out in accordance with the provisions of the University of Cantabria's Assessment Procedures Regulations for such cases. Group work may be replaced by individual work.

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

EEA (2006). The changing faces of Europe's coastal areas. Copenhagen: European Environment Agency, EEA Report, nº 6/2006. Disponible, en mayo de 2015, en: http://www.eea.europa.eu/publications/eea_report_2006_6

EEA (2012). Towards efficient use of water resources in Europe. Copenhagen: European Environment Agency, EEA Report, nº 1/2012. Disponible, en mayo de 2015, en: http://www.eea.europa.eu/publications/towards-efficient-use-of-water

FAO (2014). El estado mundial de la pesca y la acuicultura. Oportunidades y desafíos. Roma: Organización de las Naciones Unidas para la Agricultura y la Alimentación. Disponible, en mayo de 2015, en: http://www.fao.org/3/a-i3720s/index.html

Gil Olcina, A.; Morales Gil, A. (Eds.) (1998). Los usos del agua en España. Coloquio sobre los usos del agua en España. Alicante: Caja de Ahorros del Mediterráneo; Universidad de Alicante, Instituto Universitario de Geografía [CAM / Básica / 556.5 8; CAM / Monografías / 556.5e 30].

Pueyo Losa, J.; Urbina, J.J. (Coords.) (2009). La cooperación internacional en la ordenación de los mares y océanos. Madrid: Iustel, Colección Monografías [DEC / Monografías / MAi coo].

UN WATER (2007). El agua, una responsabilidad compartida. 2° Informe de las Naciones Unidas sobre el Desarrollo de los Recursos Hídricos en el Mundo. United Nations World Water Development Report 2 (Un-Water/WWAP/2007/02). París / Nueva York: UNESCO. Disponible, en mayo de 2015, en: http://unesdoc.unesco.org/images/0014/001495/149519S.pdf