



Teaching Guide				
Identifying Data				2023/24
Subject (*)	Surface Water Assessment	Code	632549015	
Study programme	Máster Universitario en Xestión Sostible da Auga			
Descriptors				
Cycle	Period	Year	Type	Credits
Official Master's Degree	2nd four-month period	First	Obligatory	3
Language	Spanish			
Teaching method	Face-to-face			
Prerequisites				
Department	Enxeñaría Civil			
Coordinador	Barrientos Rodríguez, Victor	E-mail	victor.barrientos@udc.es	
Lecturers	Barrientos Rodríguez, Victor Soriano Hoyuelos, Gemma	E-mail	victor.barrientos@udc.es gemma.soriano@udc.es	
Web				
General description	Materia destinada a conocer y entender las Directivas nacionales y europeas relacionadas con estas masas de agua, así como conocer su origen, evaluación y parámetros ecológicos que determinan su estado.			

Study programme competences / results	
Code	Study programme competences / results
A1	CON1 Describe the principles, concepts, and dimensions that encompass integrated water resources management and its role as a key tool for achieving water security and advancing the associated Sustainable Development Goals (SDGs). Identify problems related to water development, use, and access. Identify and compare water legislation at the European, national, regional, and local levels, as well as interpret conceptual frameworks on sustainable development and their application to the water sector, with a specific focus on the SDGs. Provide tools to explain the economics of water. Enumerate aspects of public taxation that may be relevant in water management.
A5	CON5 Describe the fundamentals of water resources assessment and the main tools for hydrological planning, based on the Water Framework Directive, legislation, and global frameworks for water resource allocation, including the environmental component. Demonstrate that ecosystem services linked to water have high added value and that nature-based solutions enable a sustainable approach to water resource management.
B1	HAB1 Use and compare water legislation and conceptual frameworks related to sustainable development. Operate with tools that allow estimating economic variables (macro and micro) related to water, and employ the tools to apply appropriate taxation and cost policies to water
B4	HAB4 Analyze the European Union's Water Framework Directive and Floods Directive, their technical implications, and their implementation through hydrological planning. Utilize computer tools for problem-solving related to water management within the framework of both directives. Develop measurements and analysis of hydrologically relevant data and data related to the state of water bodies. Evaluate the effect of urban use on the watershed and analyze the consequences of discharging water (treated or untreated) into receiving water bodies. Additionally, develop strategies to protect areas of surface water and groundwater generation within watersheds, based on the principle of recognizing and enhancing ecosystem services.
C4	COM4 Integrate the various sources that generate the water supply and the uses that create the demand into systems or balances that allow for proper management. Plan the water resource at both macro and micro scales, allocating water to different uses while integrating environmental and social demands

Learning outcomes		
Learning outcomes	Study programme competences / results	
Descreber os principios, conceptos e dimensións que comprende a xestión integrada dos recursos hídricos e o seu papel como ferramenta clave para acadar a seguridade hídrica e avanzar na consecución dos ODS asociados.	AJ1	
	AJ5	



		BJ1	
		BJ4	
			CJ4

Contents	
Topic	Sub-topic

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student?s personal work hours	Total hours
Supervised projects	A1 A5 B1 B4 C4	2	9	11
Mixed objective/subjective test	A1 A5 B1 B4 C4	2	9	11
Directed discussion	A1 A5 B1 B4 C4	1	4	5
Guest lecture / keynote speech	A1 A5 B4 C4	16	32	48
Personalized attention		0	0	0

(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
Methodologies	Description
Supervised projects	
Mixed objective/subjective test	
Directed discussion	
Guest lecture / keynote speech	

Personalized attention	
Methodologies	Description
Supervised projects	

Assessment			
Methodologies	Competencies / Results	Description	Qualification
Supervised projects	A1 A5 B1 B4 C4		15
Mixed objective/subjective test	A1 A5 B1 B4 C4		85

Assessment comments

Sources of information



Basic	<ul style="list-style-type: none"> - ().. - ().. - ().. <p>Real Decreto 817/2015, de 11 de septiembre 2015Real Decreto 817/2015, de 11 de septiembre 2011Directive 2008/105/EC setting environmental quality standards in the field of water policyReal Decreto 817/2015, de 11 de septiembre 2015Real Decreto 817/2015, de 11 de septiembre 2011Directive 2008/105/EC setting environmental quality standards in the field of water policy</p>
Complementary	<p>https://www.miteco.gob.es/es/agua/legislacion/Marco_normativo_planificacion.aspxhttps://www.miteco.gob.es/es/agua/temas/estado-y-calidad-de-las-aguas/aguas-superficiales/categorias-y-tipos-de-masas-de-agua/GUÍA PARA LA EVALUACIÓN DEL ESTADO DE LAS AGUAS SUPERFICIALES Y SUBTERRÁNEAS MINECO 2021</p>

Recommendations

Subjects that it is recommended to have taken before

Subjects that are recommended to be taken simultaneously

Biological Assessment of Water Quality/632549024
Water, Sustainability and Common Good/632549001

Subjects that continue the syllabus

Hydrological Basins Monitoring for the Tracking of Water Mases/632549023
Limnology/632549021

Other comments

"-Segundo se recolle nas distintas normativas de aplicación para a docencia universitaria deberase incorporar a perspectiva de xénero nesta materia (usarase linguaxe non sexista, utilizarase bibliografía de autores/as de ambos sexos, propiciarse a intervención en clase de alumnos e alumnas...)-Traballarse para identificar e modificar prexuízos e actitudes sexistas e influirse na contorna para modificalos e fomentar valores de respecto e igualdade.-Deberanse detectar situacións de discriminación por razón de xénero e proporanse accións e medidas para corrixilas."

(*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.