		Teaching Guide		
	Identifying D	ata		2023/24
Subject (*)	Ecosystemic Services and Ecohydrau	ulics	Code	632549022
Study programme	Máster Universitario en Xestión Sosti	ble da Auga	'	
		Descriptors		
Cycle	Period	Year	Туре	Credits
Official Master's Degree	e 2nd four-month period	First	Optional	3
Language				
Teaching method	Face-to-face			
Prerequisites				
Department	Enxeñaría Civil			
Coordinador	Vázquez González, Ana María	E-mai	ana.maria.vazo	quez@udc.es
Lecturers	Pena Mosquera, Luis	E-mai	luis.pena@udc	.es
	Vázquez González, Ana María		ana.maria.vazo	quez@udc.es
Web		1	'	
General description				

	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.
A3	CON3 Explain the foundations of chemistry, biology, and morphology of continental aquatic ecosystems. Provide the common
	methodology of the EU for assessing the status of water bodies and its adaptation to different territorial contexts. Identify models for
	assessing pressures and impacts on water bodies, understanding their opportunities and limitations. Suggest solutions for the
	maintenance and improvement of the status of water bodies across their different quality elements. Identify bioindicators.
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.
C1	COM1 Validate, evaluate, and adapt water legislation for a specific situation. Synthesize the economic variables involved in a problem
	related to water management. Adapt conceptual frameworks, particularly the Sustainable Development Goals (SDGs), to a specific
	problem
C5	COM5 Evaluate the impact of floods and droughts and propose strategies to mitigate them in accordance with legislation, applying new
	technologies. Propose sustainable and socially acceptable solutions.

Learning outcomes			
Learning outcomes	Study	y progra	amme
	con	npetenc	es/
	results		
	AJ1		
			CJ1



	BJ4	
	BJ1	
		CJ5
AJ3		

Contents		
Topic	Sub-topic Sub-topic	

Plannin	g		
Competencies /	Teaching hours	Student?s personal	Total hours
Results	(in-person & virtual)	work hours	
B4 C5	4	0	4
B1 C1	0.5	7	7.5
A1 A3 B1 B4 C1 C5	1.5	10	11.5
A1 A3 B1 B4 C1 C5	1	9	10
A1 A3	14	28	42
	0		0
	Competencies / Results  B4 C5 B1 C1 A1 A3 B1 B4 C1 C5 A1 A3 B1 B4 C1 C5	Results (in-person & virtual)  B4 C5 4  B1 C1 0.5  A1 A3 B1 B4 C1 C5 1.5  A1 A3 B1 B4 C1 C5 1  A1 A3 B1 B4 C1 C5 1	Competencies / Results         Teaching hours (in-person & virtual)         Student?s personal work hours           B4 C5         4         0           B1 C1         0.5         7           A1 A3 B1 B4 C1 C5         1.5         10           A1 A3 B1 B4 C1 C5         1         9           A1 A3         14         28

Methodologies		
Methodologies	Description	
Field trip		
Oral presentation		
Short answer		
questions		
Supervised projects		
Guest lecture /		
keynote speech		

Personalized attention			
Methodologies	Description		
Short answer			
questions			
Supervised projects			
Guest lecture /			
keynote speech			
Oral presentation			

Assessment			
Methodologies	Competencies /	Description	Qualification
	Results		
Short answer	A1 A3 B1 B4 C1 C5	O alumnado terá que resolver varias probas de resposta breve coas que o	40
questions		profesorado poderá evaluar os coñecementos adquiridos	



Supervised projects	A1 A3 B1 B4 C1 C5	O alumnado terá que elaborar 2 traballo sobre a docencia impartida que serán	40
		expostos na clase para o resto do alumnado e profesorado	
Oral presentation	B1 C1	El alumnado presentará na clase, os traballos tutelados elaborados	20

Assessment comments			
	Sources of information		
Basic			
Complementary			
	Recommendations		
	Subjects that it is recommended to have taken before		
Subjects that are recommended to be taken simultaneously			
Subjects that continue the syllabus			
	Other comments		

(\*)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.