



## Teaching Guide

Identifying Data					2024/25
<b>Subject (*)</b>	Modelos Numéricos de Hidráulica e Contaminación de Medios Porosos		<b>Code</b>	632508010	
<b>Study programme</b>	Mestrado Universitario en Investigación en Enxeñaría Civil (2013)				
Descriptors					
<b>Cycle</b>	<b>Period</b>	<b>Year</b>	<b>Type</b>	<b>Credits</b>	
Official Master's Degree	Yearly	First	Optional	0	
<b>Language</b>	Spanish				
<b>Teaching method</b>	Face-to-face				
<b>Prerequisites</b>					
<b>Department</b>	Enxeñaría Civil				
<b>Coordinador</b>		<b>E-mail</b>			
<b>Lecturers</b>		<b>E-mail</b>			
<b>Web</b>					
<b>General description</b>	Es un curso que proporciona una formación detallada sobre el proceso de modelización numérica en Ingeniería del Agua y del Terreno cubriendo todos los aspectos que intervienen, desde la generación de modelos conceptuales, la estimación de parámetros, la utilización y desarrollo de métodos numéricos (diferencias finitas y elementos finitos), la calibración y la evaluación de las incertidumbres. Se presta especial énfasis a las aplicaciones los modelos de flujo de agua y transporte de solutos en medios porosos en el ámbito de la Ingeniería Civil.				

## Study programme competences / results

Code	Study programme competences / results

## Learning outcomes

Learning outcomes	Study programme competences / results

## Contents

Topic	Sub-topic

## Planning

Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student's personal work hours	Total hours
Oral presentation		5	1.5	6.5
Supervised projects		12	2	14
Collaborative learning		28	2	30
Personalized attention		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
Oral presentation	
Supervised projects	



Collaborative learning
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### Personalized attention

Methodologies	Description
Collaborative learning Oral presentation Supervised projects	

### Assessment

Methodologies	Competencies / Results	Description	Qualification
Collaborative learning			50
Oral presentation			10
Supervised projects			40

### Assessment comments

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### Sources of information

Basic	
Complementary	- Domenico P. y F. Schwartz: (1990). Physical and Chemical Hydrogeology. - de Marsily, G. (1987). Quantitative Hydrogeology. Academic Press. San Diego.

### Recommendations

#### Subjects that it is recommended to have taken before

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#### Subjects that are recommended to be taken simultaneously

Xeoestatística Aplicada e Modelos Hidrolóxicos /632508009

Almacenamiento Xeolóxico Profundo de Residuos Radiactivos de Alta Actividade/632508011

#### Subjects that continue the syllabus

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#### Other comments

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(\*)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.