



Teaching Guide

Identifying Data					2024/25
Subject (*)	Modelos Numéricos de Hidráulica e Contaminación de Medios Porosos		Code	632508010	
Study programme	Mestrado Universitario en Investigación en Enxeñaría Civil (2013)				
Descriptors					
Cycle	Period	Year	Type	Credits	
Official Master's Degree	Yearly	First	Optional	0	
Language	Spanish				
Teaching method	Face-to-face				
Prerequisites					
Department	Enxeñaría Civil				
Coordinador		E-mail			
Lecturers		E-mail			
Web					
General description	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

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

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

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

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.