



Teaching Guide

Teaching Guide				
Identifying Data				2017/18
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	Optativa	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
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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

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 Hidrológicos /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.