



Teaching Guide

Teaching Guide				
Identifying Data				2015/16
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	Tecnoloxía da Construción			
Coordinador	Samper Calvete, Francisco Javier		E-mail	j.samper@udc.es
Lecturers	Samper Calvete, Francisco Javier		E-mail	j.samper@udc.es
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

Code	Study programme competences
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Learning outcomes

Learning outcomes	Study programme competences

Contents

Topic	Sub-topic

Planning

Methodologies / tests	Competencies	Ordinary class hours	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	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 Hidrológicos /632508009
Almacenamiento Xeolóxico Profundo de Resíduos Radiactivos de Alta Actividade/632508011

Subjects that continue the syllabus

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Other comments

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