UNIVERSIDADE DA CORUÑA

Teaching Guide			
Identifying Data			2021/22
Subject (*)	Modelos Numéricos de Hidrálica 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.		
Contingency plan	1. Modifications to the contents 2. Methodologies *Teaching methodologies that are maintained *Teaching methodologies that are modified 3. Mechanisms for personalized attention to students 4. Modifications in the evaluation *Evaluation observations: 5. Modifications to the bibliography or webgraphy		

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.