



Teaching Guide				
Identifying Data				2020/21
Subject (*)	Urban Service Systems Engineering		Code	632514039
Study programme	Mestrado Universitario en Enxeñaría de Camiños, Canais e Portos			
Descriptors				
Cycle	Period	Year	Type	Credits
Official Master's Degree	1st four-month period	First	Optional	4.5
Language	Spanish			
Teaching method	Face-to-face			
Prerequisites				
Department	Enxeñaría CivilMatemáticas			
Coordinador	Cagiao Villar, Juan	E-mail	juan.cagiao.villar@udc.es	
Lecturers	Cagiao Villar, Juan	E-mail	juan.cagiao.villar@udc.es	
Web	www.lis.edu.es			
General description	Ciudades inteligentes: el urbanismo de las redes y las TICS			
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	
Code	Study programme competences

Learning outcomes	
Learning outcomes	Study programme competences



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Contents	
Topic	Sub-topic
1.-El metabolismo urbano	
2.- Ciudades inteligentes: el urbanismo de las redes y las TICs	
3.- Las redes y el espacio público	
4.- Huella ecológica de ciudades	
5.- Cambio climático y su influencia en las ciudades	

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
Seminar	A35	102	0	102
Guest lecture / keynote speech	A35	10.5	0	10.5
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
Seminar	Talleres en los que se proponen trabajos a desarrollar por el alumno y se desarrollan por parte de ellos
Guest lecture / keynote speech	Clases teóricas en las que se abordan los principales temas de la asignatura y de las que salen los trabajos a desarrollar por el alumno

Personalized attention	
Methodologies	Description
Seminar	

Assessment			
Methodologies	Competencies	Description	Qualification
Seminar	A35	Los trabajos desarrollados por el alumno constituyen el 100% de la nota final	100
Guest lecture / keynote speech	A35	El alumno deberá atender y tomar nota de los aspectos teóricos más relevantes y que sean de especial aplicación para los trabajos a desarrollar en los seminarios	0



Assessment comments

Sources of information
Basic
Complementary

Recommendations
Subjects that it is recommended to have taken before
Subjects that are recommended to be taken simultaneously
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.