



Teaching Guide				
Identifying Data				2020/21
Subject (*)	Urban services	Code	632G01044	
Study programme	Grao en Enxeñaría de Obras Públicas			
Descriptors				
Cycle	Period	Year	Type	Credits
Graduate	1st four-month period	Third	Optional	4.5
Language	Spanish			
Teaching method	Face-to-face			
Prerequisites				
Department	Enxeñaría Civil			
Coordinador	Cagiao Villar, Juan	E-mail	juan.cagiao.villar@udc.es	
Lecturers	Cagiao Villar, Juan	E-mail	juan.cagiao.villar@udc.es	
Web				
General description				
Contingency plan	<ol style="list-style-type: none"> 1. Modifications to the contents 2. Methodologies <ul style="list-style-type: none"> *Teaching methodologies that are maintained *Teaching methodologies that are modified 3. Mechanisms for personalized attention to students 4. Modifications in the evaluation <ul style="list-style-type: none"> *Evaluation observations: 5. Modifications to the bibliography or webgraphy 			

Study programme competences / results	
Code	Study programme competences / results
A32	Conocimiento de los proyectos de servicios urbanos relacionados con la distribución de agua y el saneamiento.
A35	Conocimiento de la influencia de las infraestructuras en la ordenación del territorio y para participar en la urbanización del espacio público urbano, tales como distribución de agua, saneamiento, gestión de residuos, sistema de transporte, tráfico, iluminación, etc.

Learning outcomes		
Learning outcomes	Study programme competences / results	
	A32	
	A35	

Contents	
Topic	Sub-topic
Definición de servicio urbano	
Ley de Bases de Régimen Local	
Ley de Racionalización y Sostenibilidad de la Administración Local	



EIEL: Encuesta de Equipamientos e Infraestructuras Locales	
Planificación de los servicios urbanos	
Costes de los servicios urbanos	
Modelos de gestión	
Nuevas tendencias: el empleo de las TICs. Smart Cities	

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student?s personal work hours	Total hours
Guest lecture / keynote speech	A32 A35	30	0	30
Seminar	A32 A35	20	32.5	52.5
Personalized attention		30	0	30

(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
Methodologies	Description
Guest lecture / keynote speech	
Seminar	

Personalized attention	
Methodologies	Description
Seminar	

Assessment			
Methodologies	Competencies / Results	Description	Qualification
Seminar	A32 A35	Calificación de los trabajos desarrollados por el alumno	30
Guest lecture / keynote speech	A32 A35	Examen de los conocimientos adquiridos en el desarrollo de las clases teóricas	70

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.