



Teaching Guide

Identifying Data					2016/17
Subject (*)	Camiños e Ferrocarrís		Code	632G01027	
Study programme	Grao en Enxeñaría de Obras Públicas				
Descriptors					
Cycle	Period	Year	Type	Credits	
Graduate	1st four-month period	Fourth	Obligatoria	6	
Language	Spanish				
Teaching method	Face-to-face				
Prerequisites					
Department	Métodos Matemáticos e de Representación				
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Lecturers	Rodríguez Bugarín, Miguel Domingo	E-mail	m.bugarin@udc.es		
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Web					
General description	La guía docente de esta asignatura se encuentra desarrollada en la solapa "castellano".				

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
Guest lecture / keynote speech		26	26	52
Problem solving		16	24	40
Supervised projects		4	16	20
Objective test		5	30	35
Introductory activities		1	0	1
Personalized attention		2	0	2

(*)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	
Problem solving	
Supervised projects	
Objective test	
Introductory activities	

Personalized attention

Methodologies	Description
Objective test Problem solving Guest lecture / keynote speech Introductory activities Supervised projects	

Assessment

Methodologies	Competencies / Results	Description	Qualification
Objective test			95
Supervised projects			5

Assessment comments

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Sources of information

Basic	
	<ul style="list-style-type: none"> - Ministerio de Fomento (). PLIEGO DE PRESCRIPCIONES TÉCNICAS GENERALES PARA OBRAS DE CARRETERAS Y PUENTES, PG-3. PARTE 5ª: FIRMES.. - Kraemer et al. (2004). Ingeniería de Carreteras. Volumen II. McGraw Hill - Ministerio de Fomento (2003). ORDEN FOM/3460/2003, DE 28 DE NOVIEMBRE, POR LA QUE SE APRUEBA LA NORMA 6.1-IC «SECCIONES DE FIRME», DE LA INSTRUCCIÓN DE CARRETERAS. PUBLICADA EN EL BOE Nº297 DEL 12 DE DICIEMBRE DE 2003.. - Ministerio de Fomento (2003). ORDEN FOM/3459/2003, de 28 de noviembre, por la que se aprueba la Norma 6.3-IC «REHABILITACIÓN DE FIRMES», de la Instrucción de Carreteras.. - (). Transparencias de la asignatura. - García Díaz-de-Villegas (2002). Ferrocarriles. Publicaciones de la ETS de Ingenieros de Caminos de Santander - López Pita, A. (2006). Infraestructuras ferroviarias. Barcelona: Edicions UPC - López Pita, A (2008). Explotación de líneas de ferrocarril . Barcelona: Edicions UPC - Alias, J y Valdés, A. (1990). La vía del ferrocarril. Bellisco - Oliveros Rives, F.; Rodríguez Méndez, M.; Megia Puente, M (1980). Tratado de ferrocarriles II. Rueda - Esveld, C. (2001). Modern Railway Track. MRT Productions - Lichterberger, B. (2003). Handuch gleis Unterbau, Oberbau, Instandhaltung, Wirtschaftlichkeit. . Tetzlaff Verlag - Profillidis, V.A. (2006). Railway Management and Engineering. Ashgate - ADIF (). Normas ADIF Vía y Normas Renfe Vía. . - UIC (). Fichas UIC - Normativa ferroviaria.



Complementary	
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Recommendations

Subjects that it is recommended to have taken before

Infraestruturas do transporte/632G01018

Enxeñaría do Terro I/632G01020

Enxeñaría do Terreo II/632G01043

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.