



## Teaching Guide

Identifying Data					2015/16
<b>Subject (*)</b>	Movilidade Sostible e Sistemas de Transporte Metropolitano de Capacidade Intermedia	<b>Code</b>	632508017		
<b>Study programme</b>	Mestrado Universitario en Investigación en Enxeñaría Civil (2013)				
Descriptors					
<b>Cycle</b>	<b>Period</b>	<b>Year</b>	<b>Type</b>	<b>Credits</b>	
Official Master's Degree	Yearly	First	Optativa	6	
<b>Language</b>	Spanish				
<b>Teaching method</b>	Face-to-face				
<b>Prerequisites</b>					
<b>Department</b>	Métodos Matemáticos e de Representación				
<b>Coordinador</b>		<b>E-mail</b>			
<b>Lecturers</b>	Novales Ordax, Margarita Rodríguez Bugarín, Miguel Domingo	<b>E-mail</b>	margarita.novales@udc.es m.bugarin@udc.es		
<b>Web</b>					
<b>General description</b>					

## 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
Introductory activities		1	0	1
Guest lecture / keynote speech		40	40	80
Case study		20	40	60
Document analysis		1	8	9
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
Introductory activities	
Guest lecture / keynote speech	
Case study	
Document analysis	



## Personalized attention

Methodologies	Description

## Assessment

Methodologies	Competencies / Results	Description	Qualification
Guest lecture / keynote speech			0
Case study			0
Document analysis			0

## Assessment comments

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## Sources of information

<b>Basic</b>	<ul style="list-style-type: none"> <li>- Comisión de las Comunidades Europeas (2007). Libro verde. Hacia una nueva cultura de la movilidad urbana.</li> <li>- UITP (2001). Desplazarse mejor en la ciudad.</li> <li>- IHOBE (2004). Guía práctica para la elaboración de Planes de Movilidad Urbana Sostenible.</li> <li>- IDAE (2006). Guía práctica para la elaboración e implantación de Planes de Movilidad Urbana Sostenible (PMUS).</li> <li>- Sanz Alduán, Alfonso (2008). Calmar el tráfico: una herramienta de la movilidad sostenible. Ministerio de Fomento</li> <li>- R. Bugarín, M., Novales, M., Orro, A (2003). Evolución de los sistemas tranviarios. Tórculo</li> <li>- Vuchic, V.R. (2007). Urban Transit. Systems and technology. John Wiley &amp; Sons, Inc</li> <li>- Grava, S. (2003). Urban Transportation Systems. Choices for communities. McGraw-Hill</li> <li>- APTA (2013). Modern Streetcar Vehicle Guidelines.</li> <li>- VDV (2007). Local and regional railway tracks in Germany.</li> <li>- Transportation Research Board (2012). Track Design Handbook for Light Rail Transit.</li> <li>- UITP (2004). Guidelines for selecting and planning a new light rail system. Level 1, 2 &amp; 3.</li> <li>- CERTU (2005). Bus à Haut Niveau de Service. Concept et recommandations.</li> </ul>
<b>Complementary</b>	

## 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.