

**1. General information****Course:** MANAGEMENT AND URBAN DESIGN OF FORMS**Code:** 310819**Type:** ELECTIVE**ECTS credits:** 4.5**Degree:** 2343 - MASTERS DEGREE PROGRAMME IN ENGINEERING OF ROADS, CANALS AND PORTS**Academic year:** 2021-22**Center:** 603 - E.T.S. CIVIL ENGINEERS OF CR**Group(s):** 20**Year:** 2**Duration:** First semester**Main language:** English**Second language:** Spanish**Use of additional languages:****English Friendly:** N**Web site:****Bilingual:** N**Lecturer:** MARIA AMPARO MOYANO ENRIQUEZ DE SALAMANCA - Group(s): 20

Building/Office	Department	Phone number	Email	Office hours
ETSI Caminos/ 2-D49	INGENIERÍA CIVIL Y DE LA EDIFICACIÓN	926051930	Amparo.Moyano@uclm.es	It will be fixed in the first week according to the students' calendar

2. Pre-Requisites

Not established

3. Justification in the curriculum, relation to other subjects and to the profession

The course belongs to the Master "Ing. de Caminos" (Civil engineering) urban and transport intensification. For that reason, it is linked to the "Trabajo Proyectual" (PBL; project work) in the same topic, and gives theoretical support and analysis tools to the learning process.

4. Degree competences achieved in this course**Course competences**

Code	Description
G04	Knowledge of the history of civil engineering and ability to analyse and assess public works in particular and the construction industry in general.
G14	Ability to undertake studies, spatial planning and urban development plans and projects.
ITUOT6	Knowledge of the influence of urban form on the efficiency of modes of urban transportation and the management of public services and infrastructure.
ITUOT7	Capacity to analyse and diagnose the social, cultural, environmental and economic conditions of a neighbourhood, as well as to carry out projects to improve urban quality

5. Objectives or Learning Outcomes**Course learning outcomes****Description**

Students understand the peculiarities of planning, designing and managing different urban forms.

Students are familiar with the forms of physical and social rehabilitation of residential neighborhoods.

Students are familiar with the measures to preserve and promote the built heritage in the different areas of the city, especially in the historic districts.

Students are familiar with the most common problems of urban infrastructure and services in different urban forms.

Students know the problems and solutions that are usual for mobility in the different types of neighborhoods.

Students are familiar with the most modern techniques for introducing sustainable mobility into the various urban forms. Intermodal transportation hubs, bicycles, public transport.

6. Units / Contents**Unit 1: GIS analysis of the urban form****Unit 1.1** GIS data sources**Unit 1.2** Analysis of urban parameters, land use, street networks, etc. for the different urban forms**Unit 1.3** Network analysis and urban studies**Unit 2: Identification of urban forms. Management and desing problems****Unit 2.1** Historic City centres**Unit 2.2** XIXth century urban expansions (Ensanches)**Unit 2.3** Modern movement residential neighbourhoods**Unit 2.4** Peripheral single family housing neighbourhoods**7. Activities, Units/Modules and Methodology**

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON-							

[SITE]	Lectures	G04 G14 ITUOT6 ITUOT7	0.72	18	N	-
Computer room practice [ON-SITE]	Guided or supervised work	G04 G14 ITUOT6 ITUOT7	0.38	9.5	Y	N
Practicum and practical activities report writing or preparation [OFF-SITE]	Individual presentation of projects and reports	G04 G14 ITUOT6 ITUOT7	0.8	20	Y	Y
Project or Topic Presentations [ON-SITE]	Debates	G04 G14 ITUOT6 ITUOT7	0.25	6.25	Y	N
Writing of reports or projects [OFF-SITE]	project-based learning	G04 G14 ITUOT6 ITUOT7	2.35	58.75	Y	Y
Total:			4.5	112.5		
Total credits of in-class work: 1.35			Total class time hours: 33.75			
Total credits of out of class work: 3.15			Total hours of out of class work: 78.75			

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System			
Evaluation System	Continuous assessment	Non-continuous evaluation*	Description
Assessment of active participation	20.00%	0.00%	Class participation during computer room practices, presentations and debates.
Assessment of problem solving and/or case studies	30.00%	30.00%	GIS analysis maps and reports. Minimum grade required: 4.0
Final test	50.00%	70.00%	Final report of the course, including the identification of urban forms and good practices for management. Minimum grade required: 4.0
Total:	100.00%	100.00%	

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

Evaluation criteria for the final exam:

Continuous assessment:

The final grade of the course must be greater or equal to 5.0, and it will be obtained using the percentages assigned for the different activities included in the continuous evaluation system.

Unless stated otherwise, continuous evaluation criteria will be applied to all students.

Anyone choosing non-continuous assessment must notify it to the lecturer within the class period of the subject. The option is only available if the student's participation in evaluation activities (from the continuous assessment) has not reached 50% of the total evaluation for the subject.

Non-continuous evaluation:

The final grade of the course must be greater or equal to 5.0, and it will be obtained using the percentages assigned for the different activities included in the non-continuous evaluation system.

In this case, the students must do the GIS analysis in an autonomous way and present them in the final evaluation with the final report. In addition, they must include a section in the final report with the comparison with international case studies, as they probably do not attend the presentations and debates carried out during the course.

Specifications for the resit/retake exam:

Every student is evaluated in the same way than in the final exam assessment (for both continuous or non-continuous evaluation), considering the same weighting percentages for getting the final grade.

Specifications for the second resit / retake exam:

In this case, every student is evaluated using the same criteria and weighting percentages established in the non-continuous evaluation.

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
Unit 1 (de 2): GIS analysis of the urban form	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	9
Computer room practice [PRESENCIAL][Guided or supervised work]	6
Practicum and practical activities report writing or preparation [AUTÓNOMA][Individual presentation of projects and reports]	10
Project or Topic Presentations [PRESENCIAL][Debates]	3.25
Writing of reports or projects [AUTÓNOMA][project-based learning]	25
Group 20:	
Initial date: 13-09-2021	End date: 24-10-2021
Unit 2 (de 2): Identification of urban forms. Management and desing problems	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	9
Computer room practice [PRESENCIAL][Guided or supervised work]	3.5
Practicum and practical activities report writing or preparation [AUTÓNOMA][Individual presentation of projects and reports]	10
Project or Topic Presentations [PRESENCIAL][Debates]	3

Writing of reports or projects [AUTÓNOMA][project-based learning]	33.75
Group 20:	
Initial date: 25-10-2021	End date: 03-12-2021
Global activity	
Activities	hours
Class Attendance (theory) [PRESENCIAL][Lectures]	18
Computer room practice [PRESENCIAL][Guided or supervised work]	9.5
Writing of reports or projects [AUTÓNOMA][project-based learning]	58.75
Practicum and practical activities report writing or preparation [AUTÓNOMA][Individual presentation of projects and reports]	20
Project or Topic Presentations [PRESENCIAL][Debates]	6.25
Total horas: 112.5	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Gutiérrez Puebla, Javier	SIG: Sistemas de Información Geográfica	Síntesis		84-7738-246-8	2008	
Barrionuevo Ferrer, Antonio	Sevilla: las formas de crecimiento y construcción de la ciudad	Universidad, Secretariado de Publicaciones		84-472-0796-X	2003	
Haupt, P., Berghauser Pont, M.	Spacemate http://www.urban-knowledge.nl/3/spacemate-spacematrix?_language=en			978-90-407-2530-2	2005	
Kostof, Spiro	The city assembled: the elements of urban form through histo	Thames & Hudson		0-500-28172-6	1999	
Kostof, Spiro	The city shaped: urban patterns and meanings through history	Bulfinch Press Book		0-8212-2016-0	1999	
Panerai, Philippe R.	Formas urbanas: de la manzana al bloque	Gustavo Gili		84-252-1291-X	1986	
Panerai, Philippe R.	Urban forms : the death and life of the urban block /	Architectural Press,		978-0-7506-5607-8	2004	
Rodríguez-Tarduchy, María José	Forma y ciudad : en los límites de la arquitectura y el urba	Cinter Divulgación Técnica,		978-84-939305-0-9	2011	
Solà-Morales i Rubió, Manuel de	Las formas de crecimiento urbano	UPC		84-8301-197-2	2008	
VALENZUELA RUBIO, Manuel	Cascos históricos y dinámicas territoriales: el caso de las Las formas de crecimiento	Colegio Universitario		84-600-5423-3	1988	