



## 1. General information

Course: URBANIZATION PROJECTS: URBAN DESIGN AND FACILITIES  
Type: CORE COURSE  
Degree: 345 - UNDERGRADUATE DEGREE PROGRAMME IN CIVIL ENGINEERING  
Center: 603 - E.T.S. CIVIL ENGINEERS OF CR  
Year: 4

Main language: Spanish

Use of additional languages:  
Web site:

Code: 38330  
ECTS credits: 6  
Academic year: 2023-24  
Group(s): 20  
Duration: First semester  
Second language: English  
English Friendly: Y  
Bilingual: N

Lecturer: JESUS PINTADO MANZANEQUE - Group(s): 20					
Building/Office	Department	Phone number	Email	Office hours	
E.T.S.I. Caminos, Canales y Puertos Despacho 2-C40	INGENIERÍA CIVIL Y DE LA EDIFICACIÓN	3286	jesus.pintado@uclm.es	Monday: 16:00-19:00h Wednesday:9:00-12:00h	
Lecturer: MARIA RITA RUIZ FERNANDEZ - Group(s): 20					
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ETSI Caminos/ 2-D48	INGENIERÍA CIVIL Y DE LA EDIFICACIÓN	3287	rita.ruiz@uclm.es	Monday, Wednesday, Thursday and Friday: 11:30-12:00h Tuesday: 10:00-14:00h	

## 2. Pre-Requisites

It is necessary to have good knowledge of graphic expression.

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

The course aims to introduce the student to the design of public space and the calculation of urban services, so that the student is able to carry out basic urbanization projects.

It is taught in the same semester as the TP subject: Urban and Territorial Development, in which some of the knowledge acquired in the subject is used and, in addition, the necessary conceptual basis is provided to satisfy

## 4. Degree competences achieved in this course

Course competences	
Code	Description
CB03	Be able to gather and process relevant information (usually within their subject area) to give opinions, including reflections on relevant social, scientific or ethical issues.
CB04	Transmit information, ideas, problems and solutions for both specialist and non-specialist audiences.
CE01	Students can apply their knowledge in the practical solution of civil engineering problems, with capacity for the analysis and definition of the problem, the proposal of alternatives and their critical evaluation, choosing the optimal solution with technical arguments and with capacity of defense against third parties.
CE02	Students have the ability to broaden their knowledge and solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their area of study. Self-study ability, to undertake further studies with a high degree of autonomy
CE03	Students have the capacity to integrate sustainability, respect for the environment and general interest criteria into the design and engineering decision-making processes, keeping in mind economic rationality.
CE22	Students have the capacity for land use planning by establishing alignments, road and infrastructure networks, intensities of use, at urban and territorial scales.
CE23	Students reach the capacity to understand the territorial processes (natural and anthropogenic) of a place, including its historical component, and use them in the design of public works.
CG01	Students achieve general knowledge of Information and Communication Technologies (ICT).
CG03	Students to maintain an ethical commitment and professional ethics
CG04	Students have management and teamwork skills
TSU03	Students have knowledge of the legal framework of urban management.
TSU04	Students have knowledge of the impact of infrastructure on spatial planning and have knowledge to participate in the urban development, such as water supply, sanitation, waste management, transportation systems, traffic, lighting, etc.

## 5. Objectives or Learning Outcomes

Course learning outcomes	
Description	
Students are able to manage a land (that contains different public works) in regional and local scale and in urban projects.	
Students understand the effects of infrastructure on the territory.	
Students know the fundamental tools of urban planning and management.	
Students understand the legal framework of territorial planning.	
Students are able to create land development plans.	
Students can perform works of analysis of a territory.	
Students are familiar with the elements of urban public space development: water distribution networks, sanitation, waste management, traffic, transport, lighting...	

## 6. Units / Contents

Unit 1: Introduction	
Unit 2: Presentation of the different types of urban public spaces. Plan and management proposals.	
Unit 2.1 Social and environment issues of the urban public space	
Unit 2.2 New trends in urban design	
Unit 3: Formal guidelines for the design of the urban public space	
Unit 3.1 Urban transportation networks	
Unit 3.2 Pedestrian networks	
Unit 3.3 Parkings	
Unit 3.4 Pavements	
Unit 3.5 Water distribution networks	
Unit 3.6 Sanitation	
Unit 3.7 Lighting	
Unit 3.8 Other infrastructures	
Unit 3.9 Green spaces, vegetation, urban furniture	

## 7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Writing of reports or projects [OFF-SITE]	Project/Problem Based Learning (PBL)	CB03 CB04 CE01 CE02 CE03 CE22 CE23 CG01 CG03 CG04	2.8	70	N		Students will work individually or in groups, as specified in the works proposed throughout the semester.
Class Attendance (theory) [ON-SITE]	Lectures	CE02 CE03 CE22 CE23 CG01	1.02	25.5	N		Oral presentations and master classes
Project or Topic Presentations [ON-SITE]	Project/Problem Based Learning (PBL)	CB03 CB04 CE01	0.5	12.5	Y	Y	During the academic year a series of works will be proposed that will allow to deepen in aspects dealt with in class and that will be exposed and defended in public. For example, the analysis of design experiences at the national or international level, the calculation of urban infrastructures, etc. will be addressed. These works may be recovered both in the ordinary and extraordinary call.
Field work [ON-SITE]	Combination of methods	CB03 CE01 CE02 CE03 CE23	0.24	6	Y	N	Throughout the course there will be visits to public spaces and works that may be of interest to the subject.
Study and Exam Preparation [OFF-SITE]	Self-study	CB03 CE02 CE22 CE23	0.8	20	N		Study for individual test
Final test [ON-SITE]	Assessment tests	CB03 CB04 CE01	0.12	3	Y	Y	Test that is carried out once the analysis phase has concluded in order to evaluate the individual performance of each student. This exam may be recovered both in the ordinary and in the extraordinary call.
In-class Debates and forums [ON-SITE]	Role Plays	CB03 CB04 CE01 CE02 CE03 CE23 CG03	0.52	13	Y	N	During the course, a series of debates will be organized that focus on issues related to urban design and new trends in the planning of public spaces. Student participation and interest in their contributions will be valued.
Total:			6	150			
Total credits of in-class work: 2.4							Total class time hours: 60
Total credits of out of class work: 3.6							Total hours of out of class work: 90

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	Description
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		evaluation*	
Final test	50.00%	65.00%	In order to compensate the exam grade with the rest of the submissions, a minimum grade of 4 will be required.
Practicum and practical activities reports assessment	35.00%	35.00%	Group and individual work on specific cases of design and calculation of urban infrastructures. In order to compensate these activities with the rest of the evaluable activities, a minimum grade of 4 will be required.
Assessment of active participation	15.00%	0.00%	Participation in class, in debates, visits to public spaces and works, etc.
<b>Total:</b>	<b>100.00%</b>	<b>100.00%</b>	

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:**  
Regular attendance of the student to class is recommended.  
The minimum grade to be able to compensate between the deliveries made throughout the course, the presentations and the written exam will be 4.0. The weightings of the different activities will be calculated with the percentages indicated in this guide.  
In the case of failing the course, the grades of the approved activities for the following academic years are not saved.

**Non-continuous evaluation:**  
By default, students are in the continuous assessment system.  
Whoever chooses to opt for non-continuous assessment must notify the teaching staff of the subject before the end of the class period corresponding to said subject and can only do so if their participation in assessable activities (from the continuous assessment system) does not reach the value of 50 % of the total evaluation of the subject.  
In an extraordinary call, each student would be in the same evaluation system (continuous or non-continuous) as in the ordinary call  
The same practices will be developed, even if the cadence established in the continuous evaluation is not followed. The valuation of each one of the parts will be made according to the percentage weight granted to each one of the parts in this type of evaluation. The minimum grade to be able to compensate between the deliveries made throughout the course, the final presentations and the written exam will be 4.0.  
The student should not confuse non-continuous evaluation with non-face-to-face evaluation.  
In the case of failing the course, the grades of the approved activities for the following academic years are not saved.

Specifications for the resit/retake exam:

In the extraordinary call it will only be necessary to recover the compulsory activities that have not been overcome throughout the course and in the ordinary call.

Specifications for the second resit / retake exam:

The criteria are the same as for the non-continuous evaluation.

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
Unit 1 (de 3): Introduction	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	7.5
Study and Exam Preparation [AUTÓNOMA][Self-study]	2
Group 20:	
Initial date: 04-09-2023	End date: 02-10-2023
Group 21:	
Initial date: 04-09-2023	End date: 02-10-2023
Unit 2 (de 3): Presentation of the different types of urban public spaces. Plan and management proposals.	
Activities	Hours
Writing of reports or projects [AUTÓNOMA][Project/Problem Based Learning (PBL)]	20
Class Attendance (theory) [PRESENCIAL][Lectures]	5
Project or Topic Presentations [PRESENCIAL][Project/Problem Based Learning (PBL)]	4
Study and Exam Preparation [AUTÓNOMA][Self-study]	5
In-class Debates and forums [PRESENCIAL][Role Plays]	5
Group 20:	
Initial date: 02-10-2023	End date: 30-10-2023
Group 21:	
Initial date: 02-10-2023	End date: 30-10-2023
Comment: Temporary planning may be modified due to unforeseen causes	
Unit 3 (de 3): Formal guidelines for the design of the urban public space	
Activities	Hours
Writing of reports or projects [AUTÓNOMA][Project/Problem Based Learning (PBL)]	30
Class Attendance (theory) [PRESENCIAL][Lectures]	13
Project or Topic Presentations [PRESENCIAL][Project/Problem Based Learning (PBL)]	4.5
Field work [PRESENCIAL][Combination of methods]	6
Study and Exam Preparation [AUTÓNOMA][Self-study]	5
In-class Debates and forums [PRESENCIAL][Role Plays]	5
Group 20:	
Initial date: 30-10-2023	End date: 27-11-2023
Group 21:	
Initial date: 30-10-2023	End date: 27-11-2023
Global activity	
Activities	hours
Writing of reports or projects [AUTÓNOMA][Project/Problem Based Learning (PBL)]	50
Class Attendance (theory) [PRESENCIAL][Lectures]	25.5
Project or Topic Presentations [PRESENCIAL][Project/Problem Based Learning (PBL)]	8.5
Field work [PRESENCIAL][Combination of methods]	6
Study and Exam Preparation [AUTÓNOMA][Self-study]	12
In-class Debates and forums [PRESENCIAL][Role Plays]	10
Total horas: 112	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	City	ISBN	Year	Description
Minh-Chau Tran	Developing a Culture for Experiments: Testing Urban Interventions for More Sustainable Planning				2016	
Adriana Sansão Fontes	We protect schools: tactical urbanism actions in the school surroundingsof Barcelona, Spain				2021	
Carmen Bellet Sanfeliu	LA ACTIVACIÓN DE SOLARES URBANOS. DE PRÁCTICA ALTERNATIVA A OBJETO DEPROGRAMAS MUNICIPALES				2014	
Louis Volont	DIY Urbanism and the Lens of the Commons:Observations from Spain				2019	
M. van den Bosch, A. Ode Sang	Urban natural enviroments as nature-based solutions for improve public health-a systematic review of reviews¿				2017	
Mike Lydon y Anthony Garcia	Tactical Urbanism: Short-term Action for Long-term Change	Island Press	Washigton		2015	
Jacobs, Allan B.	Grandes calles	Servicio de Publicaciones de la Universidad de Can		84-8102-119-9	1996	
Appleyard, D., Gerson, M.S. and Lintell, M.	Livable Streets	University of California Press			1981	
Gehl, Jan (1936-)	Public spaces public life : Copenhagen	The Danish Architectural Press & The Royal Dani		87-7407-305-2	2004	
Katz, Peter	The new urbanism : toward an architecture of community	McGraw-Hill		0-07-033889-2	1994	
Londres. Greater Council	Introducción al diseño urbano en áreas residenciales	Hermann Blume		84-7214-310-4	1985	
Lyall, Sutherland	Landscape : diseño del espacio público : parques, plazas, ja	Gustavo Gili		84-252-1494-7	1991	
Martínez Sarandeses, J. et al.	Espacios públicos urbanos, trazado, urbanización y mantenimiento	MOPU	Madrid		1990	
Mas Serra, Elías	Elementos de diseño urbano	Instituto Vasco de Administración Pública		84-7777-095-6	1992	
Trapero, Juan Jesús	Los paseos marítimos españoles : su diseño como espacio públ	Ediciones Akal		84-460-0850-5	1998	
	Manual de paisaje urbano	Hermann Blume		84-7214-098-9	1982	