

**1. General information****Course:** SUSTAINABLE TERRITORIAL PLANNING**Code:** 310810**Type:** CORE COURSE**ECTS credits:** 4.5**Degree:** 2343 - MASTERS DEGREE PROGRAMME IN ENGINEERING OF ROADS, CANALS AND PORTS**Academic year:** 2020-21**Center:** 603 - E.T.S. CIVIL ENGINEERS OF CR**Group(s):** 20**Year:** 1**Duration:** C2**Main language:** English**Second language:** Spanish**Use of additional languages:****English Friendly:** N**Web site:****Bilingual:** N**Lecturer:** JOSE MARIA CORONADO TORDESILLAS - Group(s): 20

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**2. Pre-Requisites**

Not established

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

Sustainability in cities and regions has become a central element when trying to solve larger issues like mitigating global climate, enabling regional adaptation, and the preservation of natural systems and ecological function. Environmental and social processes have a broad scale, they just do not happen in a neighborhood, but they will find its causes and consequences in the region or the country they are surrounded by, or even the whole world. Therefore, a sustainable planning is achieved from the local to the meso, and to the global scales. The need for a comprehensive and systemic view of the region both for its analysis and for planning and management initiatives, justify, however, the design and the multi-perspective approach of the course.

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

Code	Description
CB06	Possess and understand knowledge that provides a basis or opportunity to be original in the development and / or application of ideas, often in a research context.
CB07	Apply the achieved knowledge and ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to the area of study
CB08	Be able to integrate knowledge and face the complexity of making judgments based on information that, being incomplete or limited, includes reflections on social and ethical responsibilities linked to the application of knowledge and judgments
CB09	Know how to communicate the conclusions and their supported knowledge and ultimate reasons to specialized and non-specialized audiences in a clear and unambiguous way
G10	Capacity to carry out studies on spatial planning, on the coastal environment, on coastal planning and defence and on environmental aspects related to infrastructures.
G14	Ability to undertake studies, spatial planning and urban development plans and projects.
G25	Ability to identify, measure, enunciate, analyse, diagnose and scientifically and technically describe a civil engineering problem
G27	Ability to communicate in a second language.
G28	Ability to work in an international context.
TE09	Ability to analyse and diagnose the social, cultural, environmental and economic factors of a territory, as well as to carry out spatial and urban planning projects from the perspective of sustainable development.
TE10	Capacity for planning, management and operation of civil engineering related infrastructures.

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

Students understand the keys to sustainable urban management, from the point of view of infrastructure (networks), but also water, energy, waste, transport, economy, etc.

Students incorporate sustainability criteria into urban and territorial plans.

Students can carry out studies in territorial planning, coastal environment, coastal planning and defence and environmental aspects related to infrastructure.

Students know the usual figures and forms of planning in other geographical contexts: EU, USA, Latin America.

#### Additional outcomes

More specifically, upon completion of the course students will:

1. Understand urban and regional plans, and the related environmental issues in Spain.
2. Become familiar with the specific shapes and forms of planning in other geographic settings: EU, US, Latin America.
3. Understand the keys to sustainable and ecological planning, and its management processes from the point of view of the infrastructure, water, energy, waste, transportation, economy, etc.
4. Examine the specific applications of different design paradigms on urban form, through domestic and international examples and case studies of urban projects.
5. Learn about the current situation of different planning issues: housing, public spaces, urban management, participatory planning, etc.

#### 6. Units / Contents

**Unit 1: Introduction**

**Unit 2: History of the European City. Urban growth forms**

**Unit 3: Planeamiento y actividad urbanística en España**

**Unit 4: Introduction to Regional Planning**

**Unit 5: Urban and Regional Planning in Spain**

**Unit 6: Landscape as a resource for sustainable growth**

**Unit 7: Urban Design Paradigms**

**Unit 8: New urbanism**

**Unit 9: Sustainable urbanism**

**Unit 10: Sustainable Transport and Transport Planning**

**Unit 11: Ecological, sustainable and green urbanism**

**Unit 12: Social issues and, participatory planning for equitable planning**

#### 7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Workshops or seminars [ON-SITE]	Workshops and Seminars	G10 G14 G27 G28 TE09 TE10	1.12	28	Y	N	All class meetings will be conducted as seminars. Each student is required to contribute to seminar discussions. In order to do so, students will need to complete the related readings and come to class with thoughtful questions and ideas for further discussion.
Other off-site activity [OFF-SITE]	Reading and Analysis of Reviews and Articles	TE09 TE10	1.12	28	Y	Y	Every student should complete several class assignments for each subject of the course.
Project or Topic Presentations [ON-SITE]	Cooperative / Collaborative Learning	CB07 CB09 G27 G28 TE10	0.23	5.75	Y	Y	Students in the class will be divided in groups of three and each group will be responsible for presenting some sustainable planning solutions. Students may exercise control over discussions and raise issues and questions for the whole class to consider. More information about this process will be given in class.
Writing of reports or projects [OFF-SITE]	Case Studies	CB06 CB07 CB08 CB09 G10 G14 G25 G27 G28 TE09 TE10	2	50	Y	Y	Each student will write a report analysing a case of ECO-neighbourhood.
Final test [ON-SITE]	Assessment tests	CB06 CB07 CB08 CB09 G10 G14 G25 G27 G28 TE09 TE10	0.03	0.75	Y	Y	Final test
<b>Total:</b>			<b>4.5</b>	<b>112.5</b>			
<b>Total credits of in-class work: 1.38</b>							<b>Total class time hours: 34.5</b>
<b>Total credits of out of class work: 3.12</b>							<b>Total hours of out of class work: 78</b>

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
Final test	40.00%	50.00%	
Assessment of active participation	10.00%	0.00%	Active class participation
Portfolio assessment	20.00%	0.00%	Class assignments
Projects	30.00%	50.00%	Analysis of a Eco-Neighbourhood
<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).

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
Unit 1 (de 12): Introduction	
Activities	Hours
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	2.8
Other off-site activity [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	2.8
Writing of reports or projects [AUTÓNOMA][Case Studies]	4.23
Unit 2 (de 12): History of the European City. Urban growth forms	
Activities	Hours
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	2.8
Other off-site activity [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	2.8
Writing of reports or projects [AUTÓNOMA][Case Studies]	4.23
Unit 3 (de 12): Planeamiento y actividad urbanística en España	
Activities	Hours
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	2.8
Other off-site activity [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	2.8
Writing of reports or projects [AUTÓNOMA][Case Studies]	4.23
Unit 4 (de 12): Introduction to Regional Planning	
Activities	Hours
Project or Topic Presentations [PRESENCIAL][Cooperative / Collaborative Learning]	2.75
Writing of reports or projects [AUTÓNOMA][Case Studies]	4.23
Unit 5 (de 12): Urban and Regional Planning in Spain	
Activities	Hours
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	2.8
Other off-site activity [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	2.8
Writing of reports or projects [AUTÓNOMA][Case Studies]	4.23
Unit 6 (de 12): Landscape as a resource for sustainable growth	
Activities	Hours
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	2.8
Other off-site activity [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	2.8
Writing of reports or projects [AUTÓNOMA][Case Studies]	4.23
Unit 7 (de 12): Urban Design Paradigms	
Activities	Hours
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	2.8
Other off-site activity [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	2.8
Writing of reports or projects [AUTÓNOMA][Case Studies]	4.23
Unit 8 (de 12): New urbanism	
Activities	Hours
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	2.8
Other off-site activity [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	2.8
Writing of reports or projects [AUTÓNOMA][Case Studies]	4.23
Unit 9 (de 12): Sustainable urbanism	
Activities	Hours
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	2.8
Other off-site activity [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	2.8
Writing of reports or projects [AUTÓNOMA][Case Studies]	4.23
Unit 10 (de 12): Sustainable Transport and Transport Planning	
Activities	Hours
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	2.8
Other off-site activity [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	2.8
Writing of reports or projects [AUTÓNOMA][Case Studies]	4.23
Unit 11 (de 12): Ecological, sustainable and green urbanism	
Activities	Hours
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	2.8
Other off-site activity [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	2.8
Writing of reports or projects [AUTÓNOMA][Case Studies]	4.23
Unit 12 (de 12): Social issues and, participatory planning for equitable planning	
Activities	Hours
Project or Topic Presentations [PRESENCIAL][Cooperative / Collaborative Learning]	3
Writing of reports or projects [AUTÓNOMA][Case Studies]	4.22
Global activity	
Activities	hours
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	28
Other off-site activity [AUTÓNOMA][Reading and Analysis of Reviews and Articles]	28
Project or Topic Presentations [PRESENCIAL][Cooperative / Collaborative Learning]	5.75
Writing of reports or projects [AUTÓNOMA][Case Studies]	50.75

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	City	ISBN	Year	Description
Fermin Rodríguez Gutiérrez (coord.)	Áreas metropolitanas de España: la nueva forma de la ciudad.	Universidad de Oviedo			2009	
Inés Sánchez de Madariaga	Introducción al Urbanismo. Conceptos y métodos de la planificación urbana.	Alianza			1999	
Jan Gehl	La humanización del espacio urbano : la vida social entre los edificios	Reverté			2006	
Jane Jacobs	Muerte y vida de las grandes ciudades	Capitán Swing Libros			2013	
Joaquín Farinós i Dasí and Joan Romero (coords.)	Ordenación del territorio y desarrollo territorial. El gobierno del territorio en Europa: tradiciones, contextos, culturas y nuevas visiones.	Trea			2004	
John Pucher and Ralph Buehler	City Cycling	The MIT Press			2012	
Katie Williams, Elizabeth Burton and Mike Jenks (Eds.)	Achieving Sustainable Urban Form.	E & FN Spon			2000	
Manuel Benavent	La ordenación del territorio en España. Evolución del concepto y de su práctica en el siglo XX.	Univ. de Sevilla y Consejería de O. P. de la Junta de Andalucía			2006	
Mateu Turro	Going Trans-European. Planning and Financing Transport Networks for Europe.	Pergamon Press			1997	
Michael Larice and Elizabeth Macdonald	The Urban Design Reader.	Routledge			2013	
Mike Lydon and Anthony Garcia	Tactical Urbanism. Short-term Action for Long-term Change.	Island Press			2015	
Mohsen Mostafavi (Ed.)	Urbanismo Ecológico.	Gustavo Gili			2014	
Pedro Gadanho (Ed.)	Uneven Growth: Tactical Urbanisms for Expanding Megacities.	MoMA Publications			2014	
Robert Venturi, Denise Scott Brown and Steven Izenour	Learning From Las Vegas. The Forgotten Symbolism of Architectural Form.	The MIT Press			1977	
Timothy Beatley	Green Urbanism. Learning From European Cities.	Island Press			1999	
Vicente Bielza de Ory	Introducción a la ordenación del territorio. Un enfoque geográfico.	Prensas Universitarias de Zaragoza			2008	
Vinit Mukhija and Anastasia Loukaitou-Sideris (Eds.)	The Informal American City. Beyond Taco Trucks and Day Labor.	The MIT Press			2014	
Douglas Farr	Sustainable Urbanism: Urban Design with Nature.	Wiley			2008	
Edward W. Soja	Postmetrópolis. Estudios críticos sobre las ciudades y las regiones.	Traficantes de Sueños			2008	
Emily Talen	Urban Design Reclaimed: Tools, Techniques, and Strategies for Planners.	APA Planners Press			2009	