

Degree	Type	Year
2504604 Environmental Sciences	OB	2

## Contact

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## Teaching groups languages

You can view this information at the [end](#) of this document.

## Prerequisites

No requirement is required.

## Objectives and Contextualisation

This course has three main objectives:

First, to analyze the socio-environmental dimension of current urban and dynamics and their future trends.

Secondly, to know and reflect on the main instruments of public intervention planning of the territory and the management of its resources, using concepts of economic viability applied to different territorial scales.

Finally, deepen the development of the necessary skills to be able to propose environmentally adapted and socially just solutions in relation to current and

future problems that characterize the evolution of the territory and, in particular,

of the urbanized space.

## Learning Outcomes

1. CM41 (Competence) Apply the principal mediation techniques and key strategies from environmental conflict negotiation processes in their proper context.
2. CM42 (Competence) Analyse the ethical implications or implications related to diversity and democratic values involved in the different strategies of territorial management and/or environmental conflict resolution.
3. CM43 (Competence) Analyse the inequalities based on sex/gender that different political and/or economic models of environmental management can generate.
4. KM53 (Knowledge) Distinguish public policies and the main policy-making mechanisms in relation to environmental management.
5. KM54 (Knowledge) Recognise the extent to which economic and political factors play a role in the management of the main contemporary challenges in environmental sciences.
6. KM56 (Knowledge) Recognise advanced tools for the management of environmental problems such as the sustainable development objectives, the circular economy, degrowth and environmental negotiation.
7. SM52 (Skill) Pinpoint the most important methodologies in territorial planning and management.
8. SM53 (Skill) Incorporate the different types of economic and social knowledge that characterise environmental issues.
9. SM54 (Skill) Critically analyse the different political and economic models of environmental management.

## Content

- Rurs vs. Urbs: countryside and city in the tradition of urban and territorial planning.

From urban extensions to the garden-city.

- Rural and urban spaces in the context of the current post-metropolis.

From the 'urbanization of the countryside' to the 'dispersed regional urbanization'.

- Territorial dynamics and spatial transformation in the rural world

(evolution in three moments, XIX to XXI centuries):

- a) Support territories of the urban process;
  - b) Rurbanization;
  - c) Environmental rural tourism and energy production (energyscapes).
- Territorial dynamics in relation to urbanized spaces (evolution in three r

XIX to XXI centuries):

- a) The industrial city;
- b) Metropolitan areas;
- c) Dispersed regional urbanization.
- Sustainable planning: sustainability, resilience and climate change as

current requirements for urban and territorial planning.

- Sustainability criteria for rural spaces today.
- Sustainability criteria for urban spaces today.
- From sustainability to the 'Low-Carbon' and 'Post-oil' perspectives:

towards 'climate-proof' urban and rural spaces.

## Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Lessons (readings presentations and discussions included)	36	1.44	CM41, CM42, CM43, KM53, KM54, KM56, SM52, SM53, SM54
Tutorials & hands-on sessions (exercises and fieldtrips included)-Seminars	12	0.48	KM56, SM52, SM53, SM54
Type: Supervised			
Tutorial	7	0.28	KM53, KM54, SM53, SM54
Type: Autonomous			
Essays elaboration (group work)	45	1.8	KM56, SM52, SM53
Study work	50	2	CM43, KM53, KM54, KM56

- The expositive classes (directed activity) also incorporate discussion on text readings and

debates regarding the key aspects of the subject.

- The applied classes (directed and supervised activity) refer to the practi

exercises to be carried out in groups during the course,

emphasizing the resolution of practices and the elaboration of results.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

## Assessment

### Continous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Assignments (exercices and hands-on practical tasks)	25%	0	0	KM54, KM56, SM52, SM53, SM54
Essays to be submitted	25%	0	0	KM54, KM56, SM52, SM53, SM54
Exams on theoretical aspects	50%	0	0	CM41, CM42, CM43, KM53, KM54, KM56, SM52, SM53, SM54

- The theoretical written tests correspond to the two partial exams that are proposed

during the course.

- The tests and tasks of a practical nature correspond to the partial elaborations that

will be required during the practical sessions and exercises of the subject (group work).

- The delivery of reports and assignments correspond to the final elaboration of

the results of the practical group work.

- A minimum qualification of 5 is established in regard to the theoretical written

tests (average grade considering the two partial exams proposed).

- The recuperation will consider both the theoretical written tests and the practical applied tests when indicated.

- To be able to attend the reassessment (recovery), you must have attended 2/3 of the subject's assessment activities.

- It will be considered that a student will obtain the qualification of "Not Assessable"

if does not present the assignments (tests and tasks of a practical nature, and reports and group work), and/or does not appear in any partial exam.

Single evaluation

- The students who have taken advantage of the single evaluation modality must take a final test that will consist of a theory exam in which they must develop a topic and answer a series of short questions.

Next, you will have to do a problem test where you will have to solve a series of exercises similar to those that have been worked on in the Classroom Practice sessions.

- The student's grade will correspond to the weighted average of the three previous activities, where the theory exam will represent 60% of the mark and the problems exam 40%.

- If the final grade does not reach 5, the student has another opportunity to pass the subject through the recovery exam that will be held on the date set by the coordination of the degree.

## Bibliography

### Bibliography

Chamberlin, S. (2009). *The transition timeline for a local, resilient future*. Vermont: Chelsea Green.

Esteban, J. (2011). *La ordenación urbanística: conceptos, herramientas y prácticas*. Barcelona: Universitat Politècnica de Catalunya.

Estevan, A.; Naredo, J. M. (2004). *Ideas y propuestas para una nueva política del agua en España*. Bilbao: Bakeaz.

Fernández Durán, R. (2006). *El Tsunami urbanizador español y mundial*. Bilbao: Marcial Pons.

Folch, R. (coord.) (2003). *El territorio como sistema. Conceptos y herramientas de ordenación*. Barcelona: Diputació de Barcelona.

Galiana, L.; Vinuesa, J. (2010). *Teoría y práctica para una ordenación racional del territorio*. Madrid: Síntesis.

Gifreu, J. (2012). *L'ordenació urbanística a Catalunya*. Barcelona: Marcial Pons.

Hopkins, R. (2008). *The transition handbook: from oil dependency to local resilience*. Vermont: Chelsea Green.

Ivancic, Aleksandar (2010) *Energyscapes*. Gustau Gili: Barcelona.

Mata, R.; Tarroja, À. (2006). *El paisaje y la gestión del territorio*. Barcelona: Diputació de Barcelona.

Moya, L. (ed.). (2011). *La práctica del urbanismo*. Madrid: Síntesis.

Muñoz, Francesc (2008) *Urbanización: paisajes comunes, lugares globales*. Gustau Gili, Barcelona.

Muñoz, Francesc (2010) "La densidad urbana: de la ciudad de concentración al campo urbanizado". A Fuster Sobrepere, Joan (ed.) *La agenda Cerdà. Construyendo la Barcelona metropolitana (75-114)*. Barcelona: Ajuntament de Barcelona/Lunweg.

Muñoz, Francesc (coord. 2011) *Estratègies vers la ciutat de baixa densitat. De la contenció a la gestió*. Col·lecció 'Estudis', 9. Diputació de Barcelona.

Nel·lo, Oriol; Muñoz, Francesc (2004). "El proceso de urbanización". A Romero, Joan (coord.) *Geografía Humana. Procesos, riesgos e incertidumbres en un mundo globalizado (255-332)*. Barcelona: Ariel.

Nel·lo, O. (dir.) (2010). *La política de paisatge a Catalunya*. Barcelona: Departament de Política Territorial i Obres Públiques.

Nel·lo, O. (2012). *Ordenar el territorio. La experiencia de Barcelona y Cataluña*. València: Tirant lo Blanch.

Nel·lo, Oriol; Mele, Renata (eds. 2016) *Cities in the 21st Century*. Routledge: London.

Pujadas, R.; Font, J. (2007). *Ordenación y planificación territorial*. Madrid: Síntesis.

Riba, Carles (2011). *Recursos energètics i crisi. La fi de 200 anys irrepitibles*. Barcelona: Universitat Politècnica de Catalunya.

Riddell, R. (2004), *Sustainable Urban Planning*. Oxford: Blackwell.

Saladié, O.; Oliveras, J. (2010). *Desenvolupament sostenible*. Tarragona. Publicacions URV.

Sanjuán, M. (2005). *Gestió local de l'aigua*. Barcelona: Fundació Pi i Sunyer.

Sassen, Saskia (2011) *Ciudad y globalización*. Textos urbanos. Vol. VII. El Quinde. Quito.

Satterthwaite, D. (2001). *Sustainable Cities*. London: Earthscan Publications.

Turiel, Antonio (2020) *Petrocalipsis. Crisis energética global y cómo (no) la vamos a solucionar*. Ed. Alfabeto.

World Cities Report (2016). *Urbanization and Development. Emerging Futures*. UNHABITAT.

World Cities Report (2020). *The Value of Sustainable Urbanization*. UNHABITAT.

Internet links (digital documents and webpages)

The City Journal.

<https://www.city-journal.org/>

The European Union Prize for Contemporary Architecture (Mies van der Rohe Award by the Mies van der Rohe Foundation, Barcelona):

<https://eumiesaward.com/archive>

SOS Brutalism (German Architecture Museum, Frankfurt):

<http://www.sosbrutalism.org/cms/15802395>

<https://www.dam-online.de>

The Historic Chart of Barcelona (Museum of History of Barcelona, MUHBA).

<https://ajuntament.barcelona.cat/museuhistoria/en/>

The Prelinger files:

<https://archive.org/details/prelinger?tab=collection>

The European Prize for Urban Public Space:

[www.publicspace.org](http://www.publicspace.org)

Comments on the visual representation of the modern city (Gustave Caillebote):

<https://www.youtube.com/watch?v=7IQepko6yzE>

'Industrial urbanization and urban change'.

<https://www.coursera.org/lecture/urban-development/industrial-urbanisation-and-urban-change-m3UD5>

'The making of the industrial city as a social structure'.

<https://www.coursera.org/lecture/urban-development/the-making-of-the-industrial-city-as-a-social-structure-oeEd/>

## Software

Basic user-level programming: text editing, spreadsheet,

basic digital cartography, basic tools for the presentation

of visual information (ppt and adobe).

### Language list

Name	Group	Language	Semester	Turn
(SEM) Seminars	1	Catalan	second semester	afternoon
(SEM) Seminars	2	Catalan	second semester	afternoon
(TE) Theory	1	Catalan	second semester	morning-mixed