

## 30739 - Urbanism 4

### Syllabus Information

**Academic Year:** 2020/21

**Subject:** 30739 - Urbanism 4

**Faculty / School:** 110 - Escuela de Ingeniería y Arquitectura

**Degree:** 470 - Bachelor's Degree in Architecture Studies

**ECTS:** 6.0

**Year:** 5

**Semester:** First semester

**Subject Type:** Compulsory

**Module:** ---

## 1.General information

### 1.1.Aims of the course

### 1.2.Context and importance of this course in the degree

### 1.3.Recommendations to take this course

## 2.Learning goals

### 2.1.Competences

### 2.2.Learning goals

### 2.3.Importance of learning goals

## 3.Assessment (1st and 2nd call)

### 3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

## 4.Methodology, learning tasks, syllabus and resources

### 4.1.Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as theory sessions, practice sessions, autonomous work and study, and visits.

### 4.2.Learning tasks

This course is organized as follows:

**Theory sessions:** In addition to the theory sessions, a series of assignments supervised by the professors can be realized. These assignments will allow the students to deepen in the fundamental concepts of the thematic sections. Supplementary material is available in Moodle: cartography, bibliography, specific dossiers, etc.

**Practice sessions:** A weekly follow-up is carried out in the student's work workshop, with the possibility of additional tutorials. Students will develop territorial planning and landscape planning documents: plans, projects, reports, etc.

### 4.3.Syllabus

This course will address the following topics:

#### **Section A - The city and the natural environment.**

- 01. Urbanism and environmental sustainability.

- 02. Urban ecosystem (microclimate, sunlight, wind, drainage, etc.)
- 03. The agricultural land.
- 04. The territorial preexistences in the city.

#### Section B - Regional and Landscape planning.

- 05. Territory, landscape, and environment.
- 06. Notions of ecology (physical environment, ecosystems, biodiversity, vegetation, etc.)
- 07. The hydrological component (fluvial network, aquifer, drainage, flooding, etc.)
- 08. The sociocultural component (heritage, public use, participation, etc.)
- 09. Analysis and design tools (cartography, SIG, CAD, etc.)
- 10. Legal framework and instruments of regional planning.

#### Section C - Revitalization and renaturalization processes.

- 11. Conceptual bases: from the urban tradition to landscape ecology.
- 12. Landscape Projects.
- 13. Green infrastructures.

### 4.4.Course planning and calendar

- **Theory sessions:** throughout the course, taught in a coordinated manner with the supervised works and workshop activities.
- **Autonomous work:** from the third session and throughout the course.
- **Practice sessions:** weekly sessions, of two hours at least, throughout the course.
- **Travel or visits:** at least one, in the initial phase of the workshop.
- **Key dates:** a minimum of a partial delivery during the first half of the course and a final delivery.

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course will be provided on the first day of class or please refer to the College of Higher Engineering and Architecture (EINA) website (<https://eina.unizar.es/>) and Moodle.

### 4.5.Bibliography and recommended resources

- **Books:**

Díez Medina, Carmen y Monclús, Javier (eds.). 2017. *Visiones urbanas. De la cultura del plan al urbanismo paisajístico*. Madrid: Abada editores. / Díez Medina, Carmen y Monclús, Javier (eds.). 2018. *Urban Visions. From Planning Culture to Landscape Urbanism*. Cham: Springer.

Fariña Tojo, J. 1998. *La ciudad y el medio natural*. Madrid: Akal.

McHarg, Ian L. 2000. *Proyectar con la naturaleza*. Barcelona: Gustavo Gili./ McHarg, Ian L. 1969. *Design with Nature*. New York: American Museum of Natural History [by] the Natural History Press.

Mostafavi, Moshen (ed.). 2014. *Urbanismo Ecológico*. Barcelona: Gustavo Gili. / Mostafavi, Moshen (ed.). 2010. *Ecological Urbanism*. Cambridge/Baden: Harvard University Graduate School of Design/Lars Müller Publishers.

T.T. Forman, Richard. 1995. *Land Mosaics: The Ecology of Landscapes and Regions*. New York: Cambridge University Press.

Waldheim, Charles. 2006. *The Landscape Urbanism Reader*. Princeton Architectural Press.

- **Journals:**

Paisea, Topos: European Landscape Magazine y LA+ Journal

- **Website:**

[www.landezine.com](http://www.landezine.com)