

Academic Year/course: 2022/23

## 30739 - Urbanism 4

### Syllabus Information

**Academic Year:** 2022/23

**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

The subject and its expected results respond to the following approaches and objectives:

- Getting students to become familiar with the contents of landscape urbanism through the presentation and reflection on the international debate coming from different disciplines.
- Expanding the conventional urban planning vision through an approach to the geographical reality in its relation to the urban fact.
- Integrating the environmental component in the process of generating the urban planning project as a relevant and configuring variable over and above visions that consider it to be a mere conditioning factor.
- Developing in students a critical capacity regarding the different trends that coexist in the current panorama of urban and territorial planning.

These approaches and objectives are aligned with some of the Sustainable Development Goals, SDGs, of the 2030 Agenda (<https://www.un.org/sustainabledevelopment/en/>) and certain specific targets, so that the acquisition of the learning outcomes of the subject provides training and competence to the student to contribute to some extent to their achievement:

Goal 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture. Subsection 2.4

Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all. Subsection 4.7

Goal 6. Ensure availability and sustainable management of water and sanitation for all. Subsection 6.3 and 6.6

Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable. Subsection 11.1, 11.3, 11.4, 11.6, 11.7, 11.a and 11.b

Goal 12. Ensure sustainable consumption and production patterns. 12.2 y 12.b

Goal 13. Take urgent action to combat climate change and its impacts. Subsection 13.1, 13.2 and 13.3

Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss. Subsection 15.1, 15.2, 15.3, 15.4, 15.5 and 15.9

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

This is the last subject of urban planning in the Degree, and the first one that deals in depth with the nature of territorial processes with special attention to the environmental dimension of these processes and taking into account a landscape perspective.

### 1.3. Recommendations to take this course

To take this subject it is recommended to have passed Integrated Workshops I and II, as well as Urbanism 1, Urbanism 2 and Urbanism 3.

## 2. Learning goals

### 2.1. Competences

Upon successful completion of the course, the student will be more competent to...

C.E. 51.OB Adequate knowledge of: Ecology, sustainability and the principles of conservation of energy and environmental resources.

E.C. 52.OB Adequate knowledge of: The architectural, urban and landscape traditions of western culture.

E.C. 56.OB Adequate knowledge of: The methodological foundations of urban planning and territorial and metropolitan planning.

C.E. 67OB Understanding of the physical, geographical, climatic and environmental characteristics of the place and its cultural values.

## 2.2. Learning goals

In order to pass this subject, the student must demonstrate the following results:

- Acquisition of the knowledge of territorial and landscape analysis.
- Acquisition of knowledge relating to the identification of problems and opportunities for intervention in the territory.
- Ability to integrate urban and landscape projects.
- Acquisition of sensitivity towards the principles of sustainability and conservation of energy and environmental resources.
- Adequate knowledge of the methodological foundations of urban planning and territorial and metropolitan planning.

## 2.3. Importance of learning goals

The learning results obtained in the course are fundamental for the student's training in the handling of the most open concepts and instruments for intervention in the city and in the territory in which it is inserted from the urban, landscape and environmental perspective.

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

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

A- Assessment of continuous monitoring students:

The overall evaluation of the student will be done through continuous monitoring the exercises that they develop throughout the course and will be based on practical workshop (80%) and activities analysis and commentary of specialized texts (20%). In order to be able to average the score of the sections, the practical exercises of the workshop must be passed. -Assessment of the practical exercise-workshop. At least one partial delivery will be established, the assessment of which will allow the student to know the level of their work in this phase of the project. The final score will be awarded on the basis of the work presented in the final delivery of the workshop.

B- Assessment of non-continuous monitoring students:

Given the possibility that a student is unable to attend various sessions for justified reasons, arbitrates, exceptionally, the following screening tests:

- Practical exercise corresponding to the contents of the Workshop (70%).
- Written exam corresponding to the Theory Blocks (30%)

# 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.

**Visits:** at least one visit will be made to the site where the workshop work of the subject is planned.

## 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**

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=30739>