Course guide

310630 - 310630 - Urbanism and Regional Planning

Unit in charge: Barcelona School of Building Construction
Teaching unit: 751 - DECA - Department of Civil and Environmental Engineering.

Degree: BACHELOR’S DEGREE IN GEOINFORMATION AND GEOMATICS ENGINEERING (Syllabus 2016). (Compulsory subject).

Academic year: 2022  ECTS Credits: 6.0  Languages: Catalan, Spanish

LECTURER

Coordinating lecturer: Verges Fernandez, Robert

Others: Rodriguez Aranda, Daniel
         Roca Bosch, Elisabeth
         Verges Fernandez, Robert

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
1. Aptitude and capacity to develop analysis and territorial planning and territorial sustainability in the work with interdisciplinary teams.

Transversal:
3. SELF-DIRECTED LEARNING - Level 2: Completing set tasks based on the guidelines set by lecturers. Devoting the time needed to complete each task, including personal contributions and expanding on the recommended information sources.
4. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 3. Communicating clearly and efficiently in oral and written presentations. Adapting to audiences and communication aims by using suitable strategies and means.
6. SUSTAINABILITY AND SOCIAL COMMITMENT - Level 1. Analyzing the world’s situation critically and systemically, while taking an interdisciplinary approach to sustainability and adhering to the principles of sustainable human development. Recognizing the social and environmental implications of a particular professional activity.
7. SUSTAINABILITY AND SOCIAL COMMITMENT - Level 3. Taking social, economic and environmental factors into account in the application of solutions. Undertaking projects that tie in with human development and sustainability.
8. TEAMWORK - Level 3. Managing and making work groups effective. Resolving possible conflicts, valuing working with others, assessing the effectiveness of a team and presenting the final results.

TEACHING METHODOLOGY

Theoretical classes
Expositive participatory class
Practices
Teamwork
Autonomous work

LEARNING OBJECTIVES OF THE SUBJECT

The student is trained to comprehend the different occupation models and management of the territory in the current legislative framework, also with its possible professional exit in the most relevant environments of urbanism and territory ordenation.
STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Hours large group</td>
<td>24.0</td>
<td>16.00</td>
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<tr>
<td>Hours medium group</td>
<td>36.0</td>
<td>24.00</td>
</tr>
<tr>
<td>Self study</td>
<td>90.0</td>
<td>60.00</td>
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Total learning time: 150 h

CONTENTS

**Introductory principles about Urbanism**

Description:
- Presentation of the subject
- Basic concepts
- The image of the city
- Evolution of the occupation models and transformation of the territory

Legal and regulatory framework

**Full-or-part-time:** 6h
Theory classes: 6h

**Legal and regulatory framework**

Description:
- Types of rules
- Competence distribution
- Legal and regulatory framework current in Catalonia
- Principles of urban planning legislation

**Full-or-part-time:** 2h
Theory classes: 2h

**Territorial planning**

Description:
- The General Territorial Plan of Catalonia
- The Partial Territorial Plans
- The Territorial Sectorial Plans

**Full-or-part-time:** 14h
Theory classes: 2h
Practical classes: 2h
Self study: 10h
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Full-or-part-time</th>
<th>Theory classes</th>
<th>Practical classes</th>
<th>Guided activities</th>
<th>Self study</th>
</tr>
</thead>
</table>
| **Town planning basic concepts** | - General urban division in zones and systems  
- Land classification according to legal regime  
- Urban qualification  
- Types of building regulation | 14h               | 4h             |                   |                   | 10h        |
| **Urban planning**          | - Municipal Urban Ordenation Plans  
- Derivated Urban Plans  
- Urban Director Plans | 16h               | 3h             | 3h                |                   | 10h        |
| **Urban management**        | - Execution of urban planning  
- Urban action systems  
- Urban management concepts  
- Forced expropriation | 19h               | 4h             | 2h                | 3h                | 10h        |
| **Mobility**                | - Evaluation of the mobility generated by the different uses  
- Pedestrians main itineraries network  
- Public and collective surface transport itineraries network  
- Bicycle itineraries network  
- Evaluation of the mobility generated by singular implantations | 4h               |                |                   |                   |            |
**Territorial systems**

**Description:**
- Concept of territorial system
- Types of territorial systems
- The urban growth and the territorial systems
- The infrastructures (roads, railways, ports, airports)
- Technical services

**Full-or-part-time:** 14h
Theory classes: 4h
Self study: 10h

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**Urban services and urbanization project**

**Description:**
- Network of urban services
  Basic technologic determinings for the functioning of each urban service (mobility, sewage system, drinking water, streetlight, gas and telecommunications)
- Unfolding and disposition in the urban space
  Unfolding structure and functional element disposition of each network of urban services.
- The urbanization project

**Full-or-part-time:** 14h
Theory classes: 2h
Practical classes: 2h
Self study: 10h

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**Urbanistic planning, environement and sustainable developement**

**Description:**
- Urbanistic planning and environment
  Environmental evaluation of the Urbanistic planning
  Environmental sustainability reports ISA
  Studies of landscape integration and environmental impact
- Urbanistic planning and sustainable development
  Sustainable urban implantacions
  The alternative energies in the territory planning

**Full-or-part-time:** 14h
Theory classes: 4h
Self study: 10h
ACTIVITIES

ACTIVITY A

Description:
A) The student chooses a town and a buildable parcel to determine its urban qualification:
   a1.- Consultation of the Partial Territorial Plan corresponding to the chosen municipality.
   a2.- Consultation of protected natural areas.
   a3.- Consultation of the urban qualification of the plot chosen in the Municipal Urban Planning Plan.

Full-or-part-time: 4h
Self study: 4h

ACTIVITY B

Description:
B) The student chooses a polygon of urban development in the same municipality of the activity (A) and makes a proposal for reparcelation based on a hypothetical property structure based on the cadastre.

Full-or-part-time: 4h
Theory classes: 4h

GRADING SYSTEM

50% Exams - 50% Activities
Exam 1 (According to midterm exams calendar)
Oral defense of activities and final delivery (Last day of the course)
Exam 2 (According to final exams calendar)

BIBLIOGRAPHY

Basic: