Course guides

Unit in charge: Barcelona School of Architecture
Teaching unit: 740 - UOT - Department of Urbanism and Regional Planning.
Degree: DEGREE IN ARCHITECTURE STUDIES (Syllabus 2014). (Optional subject).
DEGREE IN ARCHITECTURE (Syllabus 2010). (Optional subject).
BACHELOR’S DEGREE IN LANDSCAPE ARCHITECTURE (Syllabus 2019). (Optional subject).

Academic year: 2020 ECTS Credits: 5.0 Languages: English

LECTURER

Coordinating lecturer: CARLES CROSAS ARMENGOL - MIGUEL JORGE PEREA SOLANO
Others: Segon quadrimestre: CARLES CROSAS ARMENGOL - 341 MIGUEL JORGE PEREA SOLANO - 341

REQUIREMENTS

Previous Urban Design/ Urban Planning courses

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
18. Translation from Spanish slope
19. Translation from Spanish slope
20. Translation from Spanish slope
21. Translation from Spanish slope
22. Translation from Spanish slope

General:
6. Translation from Spanish slope
7. Translation from Spanish slope
8. Translation from Spanish slope
9. Translation from Spanish slope
10. Translation from Spanish slope
11. Translation from Spanish slope
12. Translation from Spanish slope

Transversal:
13. Translation from Spanish slope
14. Translation from Spanish slope
15. Translation from Spanish slope
16. Translation from Spanish slope
17. Translation from Spanish slope

Basic:
1. Translation from Spanish slope
2. Translation from Spanish slope
3. Translation from Spanish slope
4. Translation from Spanish slope
5. Translation from Spanish slope
LEARNING OBJECTIVES OF THE SUBJECT

The course offers a reflection on various emerging paradigms of contemporary urbanism from both a practical and theoretical point of view. In the framework of the metropolitan scale, the designing potential of urban ecology, urban metabolism, resilience and long-lasting projects are examined in order to understand key elements of these concepts and their capacity for generating new urban shapes.

The discussion is addressed in the framework of a technical debate on the contemporary city, the production of its forms and constitutive interrelations. The practical exploration of these concepts and their associated urban design resources must allow enriching the set of instruments for the development of broad-spectrum projects and urban projects.

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours large group</td>
<td>55,0</td>
<td>44.00</td>
</tr>
<tr>
<td>Self study</td>
<td>70,0</td>
<td>56.00</td>
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</tbody>
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Total learning time: 125 h

CONTENTS

[Eco]systemic Urbanism

Description:
We propose an immersion into topics concerning ecology and sustainability, often related on the one hand, at the building design scale (new technologies) and on the other hand, at the scale of territorial planning. Main goal is to explore the opportunities between the binomial Urbanism and Ecology at the design project intermediate scale, dealing with flows, cycles and matter in urban context.

Paradigms
1. [Eco]systemic Urbanism. Introduction and background
2. Ecology of the city and territory. Concepts and resources
3. Metropolitan metabolism: networks and systems
4. Sustainability: tectonic approaches and systemic conceptualizations
5. Urban resilience
7. Mobility, networks and intersections
8. "Upcycling cities": new urban cycles.

The more theoretical and instrumental analysis and reflection work will be complemented by some practical exercises for implementation and design within the Barcelona Metropolis area, following the guidelines of previous courses in which workshops and work visits could be organized in collaboration with IUAV-Venezia and the Free University of Bruxelles in the framework of the project Strategic Partnership "Integrated Urban Design E-studio For 21st Century Sustainable Metropolitan Region" (15PS0004) pel període 2015-2017. See http://www.metropolitan-estudio.eu

Full-or-part-time: 125h
Theory classes: 55h
Self study: 70h
GRADING SYSTEM

The evaluation is ongoing and takes into account the active participation and contribution in seminars and classes (40%) and design practice (30%) including the mandatory attendance and outcome during the Intensive Week (30%) at the end of the term. Assignments will be elaborated in groups of 2 or 3 students but individual contribution will also be evaluated.

The full day participation in the intensive week in June is mandatory. Any student not being able to participate will not pass the course and any overlap with other intensive subjects will not be accepted.

Continuous telematic evaluation

In online teaching situations, continuous assessment will be carried out synchronously and asynchronously by the means established by the University and the School, with a periodic record of academic activity through submissions, forums, questionnaires or any other means facilitated by the Atenea platform, or the alternatives provided to the teaching staff. In the situations in which this telematic teaching is a product of face-to-face teaching that has already begun, or for questions of extra-academic order, the changes in the weightings or regular control systems of the teaching will be communicated in detail to all students by the Athena of each subject.

Telematic final evaluation

If the continuous telematic evaluation is not positive, a second evaluation can be carried out, which will consist of a final test of a global nature in telematic format that will be established in accordance with the criteria of the professor responsible and the media and ICTs provided by the University or School.

The measures for adaptation to non-classroom teaching will be implemented in accordance with the criteria of ICT security and personal data protection to ensure compliance with the legislation on Personal Data Protection (RGPD and LOPDGDD)

BIBLIOGRAPHY

Basic:

Complementary: