
Coordinating unit: 210 - ETSAB - Barcelona School of Architecture
Teaching unit: 740 - UOT - Department of Urbanism and Regional Planning
Academic year: 2019
Degree: BACHELOR'S DEGREE IN LANDSCAPE ARCHITECTURE (Syllabus 2019). (Teaching unit Optional) DEGREE IN ARCHITECTURE STUDIES (Syllabus 2014). (Teaching unit Optional) DEGREE IN ARCHITECTURE (Syllabus 2010). (Teaching unit Optional)
ECTS credits: 5 Teaching languages: English

Teaching staff
Coordinator: CARLES CROSAS ARMENGOL - MIGUEL J PEREA SOLANO
Others: Segon quadrimestre: CARLES CROSAS ARMENGOL - 141 MIGUEL J PEREA SOLANO - 141

Requirements
Previous Urban Design/ Urban Planning courses

Degree competences to which the subject contributes

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

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
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.

**Learning objectives of the subject**

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**Study load**

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

**[Eco]systemic Urbanism**

<table>
<thead>
<tr>
<th>Learning time: 125h</th>
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</thead>
<tbody>
<tr>
<td>Theory classes: 55h</td>
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<tr>
<td>Self study : 70h</td>
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**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

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 Metropolitaan Region" (15PS0004) pel període 2015-2017. See http://www.metropolitan-estudio.eu

**Qualification 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.
Bibliography

**Basic:**


**Complementary:**


