

Course guide

290507 - REGENE - Re-Generate

Last modified: 21/06/2023

Unit in charge: Vallès School of Architecture
Teaching unit: 740 - DUTP - Department of Urbanism, Territory and Landscape.

Degree: MASTER'S DEGREE IN SUSTANAIBLE INTERVENTION IN THE BUILT ENVIRONMENT (Syllabus 2014).
(Compulsory subject).

Academic year: 2023 **ECTS Credits:** 5.0 **Languages:** English

LECTURER

Coordinating lecturer: Adolf Sotoca (ENG)

Others:

PRIOR SKILLS

No previous competences required

REQUIREMENTS

No prerequisites

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

9. Awareness of the impact that social demand for sustainability has in the architect's fields of action (namely design, building, city and territory) and the need for the architect's role re-definition.
10. Knowledge in the description of the material flows that determine urban metabolism as well as in understanding their relationship with urban spaces.
11. Ability to identify the opportunities for the transformation of the urban environment towards a sustainable direction.

Generical:

4. Ability to diagnose urban settings according to sustainability characterization.
5. Design interventions in the urban milieu to improve its sustainability.

Transversal:

6. TEAMWORK: To be able to work as a member of an interdisciplinary team, either as an associate or as a team-leader, so that projects are developed in a pragmatic and responsible manner by setting up goals fitted with the available resources.

7. SOLID USE OF INFORMATION RESOURCES: Proper management and acquisition, structuring, analysis and visualization of data and information in the specified knowledge field; capacity for critical assessment of results and conclusions.

Basic:

1. Students will be able to integrate knowledge and deal with decision-making complexity that, even in cases of incomplete or limited information, ought to reflect on social and ethical outcomes.
2. Students will earn skills in clear and non-ambiguous communication of their conclusions, as well as the knowledge and reasoning sustaining them, to expert and non-expert audiences.
3. Students will build a capacity for self-driven and autonomous learning that may empower them in further studies or education.

TEACHING METHODOLOGY

The course aims at encouraging disciplinary reflection on the transformation of the city, as well as at providing the tools and competences needed undertake the its several planning processes. To this end, the contents are structured according to the following formats:

- Lectures on theory and planning tools, focused on the technical knowledge needed in urban planning regeneration.
- Continuous workshops, where contents of lectures will be applied on a actual case-study.
- Seminar, which encourage individual reflection on current issues in relation to regeneration processes.

The course will consistently bridge theory and practice by means of applying the knowledge delivered in class on an actual case. Cooperative work and learning from peers will be specially encouraged, being considered a basic competence for professional practice. Work will be carried out in groups of three students following the delivery guidelines marked in the course syllabus handed out at the beginning of the semester.

LEARNING OBJECTIVES OF THE SUBJECT

The course aims to cast a critical reflection on policies, strategies, and tools that drive contemporary urban regeneration processes. The content will be deployed in three of the main aspects that are currently widely discussed within urban studies and planning disciplines: environmental balance, spatial justice, and economic restructuring. The proposed methodology will set cross-readings between the concreteness of a Barcelonian case study and the more general framework defined by international authors and best-practice examples.

Participants in the course will acquire an in-depth understanding of urban planning tools and processes, as well as a wider critical view that may enable alternative approaches to present and future challenges. To that end, very active participation in design-based learning, as well as critical reading and reflection, will be required.

STUDY LOAD

Type	Hours	Percentage
Self study	80,0	64.00
Hours large group	22,5	18.00
Hours medium group	22,5	18.00

Total learning time: 125 h

CONTENTS

Urban Regeneration. Concepts and approaches

Description:

1. From 3R to 3S: principles of Urban Regeneration

Reduce_Scale; Reuse_Settlement; Recycle_Service. H. Daly et. alt.

2. Space: Size & Scale

Ecological Footprint. Facing climate change through adaptation/mitigation. W. Rees.

3. Society: Surplus & Service

Functional diversity and adaptability. Urban-ecology. Uneven development. D. Harvey, N. Smith.

4. Share: Site & Settlement.

Social equity and Just Sustainabilities. Re/pre distributive approaches. J. Hacker, J. Agyeman

Full-or-part-time: 21h

Theory classes: 14h 15m

Practical classes: 6h 45m



Urban Regeneration. Planning Tools

Description:

5. Space: Physical Planning.

Plans, sectors and intervention modes. Renewal vs. Regeneration

6. Society: Management and Development.

Distributives policies. Operational procedures in the Real Estate Market.

7. Share: Codes and regulations

Green factor codes, push & pull policies, bonus regulations.

Full-or-part-time: 8h 15m

Theory classes: 8h 15m

Urban Regeneration on site: SOB

Description:

A_SOB. Space, Size and Scale.

Integration into the metropolitan system. The crisis of the boundary.

Areas (socio-environmental services) and Flows (urban metabolism)

B_SOB. Surplus, Services, Society.

Vulnerabilites and social capital. Resources and demands.

Horizontal and vertical commons. Time and management.

C_SOB. Site, Settlement, Share.

From code to form. The power of the invisible.

Accountable costs & potential gains.

Full-or-part-time: 15h 45m

Practical classes: 15h 45m

GRADING SYSTEM

Based on continuous evaluation, participants in the course are required to deliver the following work:

1. Narrative elements. Description (midterm presentation, 30%)

o The Stage: Space and Urban Planning. Size and Scale.

o The Characters: Society and Civic Processes. Uses and Activities

o The Plot: Share and Policy Making. Surplus and Service

2. Story telling, key elements of sustainability: Diagnosis (final presentation, 40%)

3. Active participation, attendance, contribution to the discussions (30%)

The work will be evenly distributed along the course, according to the theoretical content. Specific criteria and guidelines for each deliverable will be communicated to students well in advance. Deadlines and formats, also announced in advance, are mandatory and of extreme importance. Grade weight for each deliverable is detailed on the list above.

EXAMINATION RULES.

Grading will be based on continuous evaluation. Active participation in class and following discussions is essential.

BIBLIOGRAPHY

Basic:

- Flyvbjerg, Bent. "Five misunderstandings about case-study research". Five misunderstandings about case-study research [on line]. 2010, Vol. 12(2), p. 219-245 [Consultation: 17/10/2022]. Available on: <https://journals-sagepub-com.recursos.biblioteca.upc.edu/doi/epdf/10.1177/1077800405284363>.
- Wackernagel, Mathis; Rees, William E.; Testemale, Phil. Our ecological footprint : reducing human impact on the earth. Gabriola Island: New Society Publishers, cop. 1996. ISBN 9781550922516.
- Daly, Herman E; Cobb, John B; Cobb, Clifford W. For the common good : redirecting the economy toward community, the environment, and a sustainable future. 2nd. Boston [etc.]: Beacon, cop. 1994. ISBN 9780807047058.
- Lehnerer, Alex. Grand urban rules. 2nd. Rotterdam: O10 Publishers, 2013. ISBN 9789462080546.
- Cole, Daniel H.; Ostrom, Elinor. "Property in land and other resources". Journal of regional science [on line]. 2012, vol. 52(4), p. 701-702 [Consultation: 17/10/2022]. Available on: <https://onlinelibrary-wiley-com.recursos.biblioteca.upc.edu/doi/full/10.1111/j.1467-9787.2012.00784.1.x>.

Complementary:

- Smith, Neil; Harvey, David. Uneven development : nature, capital and the production of space. 3rd. Athens, Georgia: University of Georgia Press, 2008. ISBN 9780820330990.
- Sotoca, Adolf; Brossa, Marc. After the project : updating mass housing states = actualització de polígons residencials [on line]. Barcelona: Iniciativa Digital Politècnica, 2012 [Consultation: 17/10/2022]. Available on: <https://upcommons.upc.edu/handle/2099.3/36605>. ISBN 9788476539194.
- Rydin, Yvonne. The Future of planning : beyond growth dependence. Bristol, UK: Policy Press, 2013. ISBN 9781447308416.
- Harvey, David. Rebel cities : from the right to the city to the urban revolution. New York: Verso, 2012. ISBN 9781844678822.

RESOURCES

Other resources:

Urban Blue-Green Infrastructure <https://www.urbangreenbluegrids.com/> />Metropolitan Strategic Plan of BCN <https://urbanisme.amb.cat/en/pdu-metropolitana/documentacio-avanc> />Regeneration Plans in BCN <https://pladebarris.barcelona/es/> />