

Course guide

290509 - REHABIL - Re-Enable

Last modified: 01/09/2023

Unit in charge: Vallès School of Architecture
Teaching unit: 753 - TA - Department of Architectural Technology.

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: PABLO GARRIDO TORRES

Others: PABLO GARRIDO TORRES

PRIOR SKILLS

No previous skills required.

REQUIREMENTS

No previous skills required.

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.

8. (ENG) TERCERA LENGUA: Conocer una tercera lengua, preferentemente el inglés, con un nivel adecuado oral y escrito y en consonancia con las necesidades que tendrán los titulados y tituladas.

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

MD1 Lecture
MD2 Participative lecture
MD3 Cooperative work
MD4 Project-based learning

LEARNING OBJECTIVES OF THE SUBJECT

Understanding of the physical conditions of architecture and environment as inhabitability providers.
Critical review about the concepts of construction and technique from the point of view of sustainability and inhabitability.
Analysis and diagnosis criteria for an intervention on the built environment.
To develop a critical vision of the strategies and technical instruments of intervention on the built environment.

STUDY LOAD

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

Total learning time: 125 h

CONTENTS

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Description:

The human being as the starting point. Senses, flows and environmental conditions.
Metabolism of material resources.
Time and architectural value. The parallel lives of buildings.
Physical life. Main case study and construction technique context.
Technical life. Filters, barriers, architectural intensity, construction elements and technical performance.
The prescription of low impact construction materials.
Construction as an inhabitability supplier.

Full-or-part-time: 3h 45m

Theory classes: 1h 55m

Practical classes: 1h 50m

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Description:

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Full-or-part-time: 11h 15m

Theory classes: 5h 30m

Practical classes: 5h 45m



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Description:

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Full-or-part-time: 3h 45m

Theory classes: 1h 55m

Practical classes: 1h 50m

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Description:

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Full-or-part-time: 26h 15m

Theory classes: 13h 25m

Practical classes: 12h 50m

GRADING SYSTEM

Exercise E1: 10%

Exercise E2: 15%

Exercise E3: 25%

Exercise E4: 20%

Exercise E5: 25%

Personal evaluation: 5%

EXAMINATION RULES.

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