



## Course guide

# 310749 - 310749 - Architecture and Construction of the House. History and Heritage Values for Rehabilitation

**Last modified:** 17/10/2023

<b>Unit in charge:</b>	Barcelona School of Building Construction	
<b>Teaching unit:</b>	756 - THATC - Department of History and Theory of Architecture and Communication Techniques.	
<b>Degree:</b>	BACHELOR'S DEGREE IN ARCHITECTURAL TECHNOLOGY AND BUILDING CONSTRUCTION (Syllabus 2019). (Optional subject).	
<b>Academic year:</b> 2023	<b>ECTS Credits:</b> 3.0	<b>Languages:</b> Catalan

## LECTURER

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<b>Coordinating lecturer:</b>	Hernández Falagán, David
<b>Others:</b>	Hernández Falagán, David Sanmarti Martinez, Claudia

## DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

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### Specific:

FE-06. FE-6 Knowledge of the historical evolution of the constructive techniques and elements and the structural systems which have led to stylistic forms.  
FE-10. FE-10 Aptitude to intervene in the refurbishment of buildings and the restoration and preservation of the built heritage.

### Transversal:

02 SCS N1. 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.  
04 COE N2. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 2. Using strategies for preparing and giving oral presentations. Writing texts and documents whose content is coherent, well structured and free of spelling and grammatical errors.

## TEACHING METHODOLOGY

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The subject is organized, on a hand in theoretical classes that provide contents, tools and instruments for the knowledge of this architecture and criteria for its rehabilitation. On the other hand, we will hold specific sessions to address interventions in existing housing that become benchmarks. In addition, a course work will be developed that we will follow and work together throughout the sessions. The study of a case must allow to concretize and to experience the learnings of the course.

## LEARNING OBJECTIVES OF THE SUBJECT

The residential fabric, the house in all its variations, is a key element that makes up our territory, our towns and our cities. It is a witness fundamental to understand the architectural and constructive culture of contemporary society. It is an essential built heritage in any approach sensitive to the cultural reality that defines us and that is careful with the resources we have.

The subject presented is based on these parameters, which is why it addresses, on the one hand, its heritage valuation (in the sense of shared material culture), on the other, it investigates its knowledge and evolution and, finally, proposes instruments for its preservation.

It is a fundamental subject for those students who are interested in working in rehabilitation.

The objectives focus on:

Provide resources for architectural and constructive knowledge of contemporary housing architecture.

Provide tools for asset valuation.

Provide knowledge and tools that facilitate the criteria of preservation and intervention.

## STUDY LOAD

Type	Hours	Percentage
Hours large group	30,0	40.00
Self study	45,0	60.00

**Total learning time:** 75 h

## CONTENTS

### The house as a cultural heritage. The house as a shaper of the material culture of our society

#### Description:

Origin of cultural heritage

Moving from the general theory to the architecture of the house as a cultural asset.

Material culture and authenticity

The invention of urban heritage

#### Full-or-part-time: 4h

Theory classes: 2h

Self study : 2h

### Architecture and construction of the house in the pre-industrial society

#### Description:

The house and the territory: cultural references and physical and geographical conditions

The conforming house of the urban nuclei

The urban representative house: houses and palaces

The thick-walled house as a constructive reference

Surface treatment and representative values

Construction systems and finishing techniques

#### Related activities:

Study and analysis of interventions

#### Full-or-part-time: 12h

Theory classes: 6h

Self study : 6h



### Architecture and construction of the house from industrialization

**Description:**

The tenement house between party walls, generator of the residential fabric  
From the artisan house to the neighbor's house  
The consolidation of the neighbor's house  
From palaces to rented houses  
The thin-walled house from industrialization  
Surface treatment. Valorisation of facades  
Beginnings of technical modernization and new materials for oneself proposal  
The detached suburban house shaping new city ideas  
Housing blocks: from the compact city to the discontinuous city  
Permanences and technical innovations

**Full-or-part-time:** 20h

Theory classes: 10h

Self study : 10h

### Instruments for the conservation of residential heritage

**Description:**

Actions on residential heritage  
House architecture and heritage sensitivity  
Knowledge and intervention as tools for sustainability  
Preservation versus gentrification

**Related activities:**

Analysis and case study

**Full-or-part-time:** 12h

Theory classes: 6h

Self study : 6h

## GRADING SYSTEM

The course is based on a continuous work that will be followed throughout the course. A work that focuses on the development and follow-up of the classes and the related exercises and a specific course work that should serve as a synthesis of learning. The weight of each of the parts is as follows:

33% Course monitoring and specific exercises in class

33% Course work

33% Content synthesis exercises

## BIBLIOGRAPHY

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### Basic:

- Rybczynski, Witold; Santos Fontenla, Fernando. La Casa : historia de una idea . Madrid : Nerea, DL 1989. ISBN 8486763134.
- David Hernández Falagán. "Architectural Rehabilitation & Storytelling: Memory as Matter.". International Journal EdA Esempi di Architettura [on line]. [Consultation: 22/06/2023]. Available on : [http://www.bienalesdearquitectura.es/images/XV\\_BEAU/Investigacion/articulos/20210211112555\\_2020-rehabilitation-storytelling.pdf](http://www.bienalesdearquitectura.es/images/XV_BEAU/Investigacion/articulos/20210211112555_2020-rehabilitation-storytelling.pdf).
- Rosselló i Nicolau, Maribel; Hereu i Payet, Pere; Oliveras Samitier, Jordi; Paricio Casademunt, Antoni; Rodríguez, Carmen; Serra Santasusagna, Joan. El Teixit residencial en la formació de la metròpolis moderna : el cas de Barcelona (1840-1936) . Barcelona: Universitat Politècnica de Catalunya. Iniciativa Digital Politècnica, 2013-2015. ISBN 9788498805086.
- Casanovas i Boixereu, Xavier. Método RehabiMed : arquitectura tradicional mediterránea : rehabilitacion, ciudad y territorio : rehabilitación, el edificio . Barcelona : RehabiMed, DL 2008. ISBN 8487104967 .
- Graus, Ramon; Rosell, Jaume. Història de la construcció a la Catalunya contemporània [on line]. Barcelona. Barcelona, 2002 Available on : [https://discovery.upc.edu/iii/encore/record/C\\_Rb1221518\\_Sapunts%20graus%20rosell\\_Orightresult\\_U\\_X1;jsessionid=29C49067D0C7F19B7A4A7C3DC40BA351?lang=cat&suite=def](https://discovery.upc.edu/iii/encore/record/C_Rb1221518_Sapunts%20graus%20rosell_Orightresult_U_X1;jsessionid=29C49067D0C7F19B7A4A7C3DC40BA351?lang=cat&suite=def).
- Paricio Casademunt, Antoni. La Casa de cós al Maresme : habitatge, arquitectura i construcció . Canet de Mar : Edicions Els 2 Pins, juny 2017. ISBN 9788494369544.
- Nourissier, Gilles; Maalouf, Amin. Arquitectura tradicional mediterránea . Barcelona : Col·legi d'Aparelladors i Arquitectes Tècnics de Barcelona, DL 2002. ISBN 8487104533 .

### Complementary:

- Muntañola i Thornberg, Josep. Nuevas estrategias en proyectos de rehabilitación . Barcelona : Edicions UPC, cop. 2001. ISBN 9788483014653.
- Muñoz, Olga. Arquitectura tradicional : tècniques constructives . [Girona] : GRETA Grup de Recuperació i Estudi de la Tradició Arquitectònica, 2016. ISBN 9788494527913 .
- Paricio Casademunt, Antoni. Secrets d'un sistema constructiu : l'Eixample . 2a ed. rev. i amp. Barcelona : Edicions UPC, 2008. ISBN 9788483019719.
- Choay, Françoise. Alegoría del patrimonio . Barcelona : Gustavo Gili, cop. 2007. ISBN 9788425222368 .
- Fontbona, Francesc; Graus, Ramon; Navas i Ferrer, Teresa. Les Arts aplicades a Barcelona . Primera edició. Barcelona : Àmbit : Ajuntament de Barcelona, març 2018. ISBN 9788496645448.