

Course guide

310188 - 310188 - Intervention Project

Last modified: 15/05/2023

Unit in charge: Barcelona School of Building Construction
Teaching unit: 753 - TA - Department of Architectural Technology.
 756 - THATC - Department of History and Theory of Architecture and Communication Techniques.
 752 - RA - Departamento de Representación Arquitectónica.

Degree: MASTER'S DEGREE IN DIAGNOSIS AND INTERVENTION TECHNIQUES IN BUILDING CONSTRUCTION (Syllabus 2020). (Compulsory subject).

Academic year: 2023 **ECTS Credits:** 6.0 **Languages:** Catalan, Spanish, English

LECTURER

Coordinating lecturer: Hormias Laperal, Emilio

Others: Sanabra Loewe, Marc
 Sanmarti Martinez, Claudia
 Esquinas Dessy, Jesús
 Marin Gordi, Oriol

PRIOR SKILLS

This master is thought for architects and technical architects.

TEACHING METHODOLOGY

In this subject it will be encouraged team work and learning by projects.

LEARNING OBJECTIVES OF THE SUBJECT

Finishing the subject the student must be capable of doing an intervention project of refurbishment of small dimensions. Determining the different specific contents of the technical refurbishment project with its specificities (memory, graphic documentation, measurements and budget, technical requirements,...)

STUDY LOAD

Type	Hours	Percentage
Guided activities	12,0	8.00
Hours medium group	6,0	4.00
Self study	108,0	72.00
Hours large group	18,0	12.00
Hours small group	6,0	4.00

Total learning time: 150 h

CONTENTS

Module 1

Description:

This module consists of the analysis of the structural system and the envelope of the building in which we will intervene.

Introductory theoretical classes will be held at the beginning of the workshops to deepen the specificity of the project in which we are intervening.

In the structural system the aspects of structural reinforcement and repair appropriate to the building in which we are intervening will be developed. Aspects related to the skin of the building and its adaptation to the current energy requirements with the different solutions that can be chosen will be covered in the envelope system.

Full-or-part-time: 20h

Theory classes: 4h

Practical classes: 16h

Module 2

Description:

This module will proceed to deepen the related aspects of the division systems and finishes taking into account the characteristics of the building in which we are intervening, both heritage and functional level. At the beginning of each topic there will be a theoretical class to specify the aspects related to the building undergoing rehabilitation.

At the end of this module an intermediate correction will be made with a jury of the teachers of the master to evaluate the work done so far.

Full-or-part-time: 20h

Theory classes: 4h

Practical classes: 16h

Module 3

Description:

In this module the works related to the quantification and evaluation of the rehabilitation (measurements and budget) and those in which the types of action will be established (memory and specifications) will be carried out. The premises regarding the safety and health aspects of the work will also be established. At the beginning of each topic there will be a theoretical class.

At the end of this module a final presentation of the work done up to that moment will be made with the assistance of a specialized jury.

Full-or-part-time: 20h

Theory classes: 4h

Practical classes: 16h

GRADING SYSTEM

Avaluation will be continuous through the participation at the 80% of the classes. This participation will count a 30% of the total grade. There will be an intermediate submission with 30% of the total grade and a final submission with a 40% of the total grade.

BIBLIOGRAPHY

Basic:

- Trill, John; Bowyer, Jack. El Caso de la esquina rota y otros problemas constructivos : una aproximación científica a la patología. Barcelona: Gustavo Gili, 1982. ISBN 8425210941.
- Broto, Carles; Mostaedi, Arian. Enciclopedia Broto de patologías de la construcción. [Barcelona?]: Links, 2005. ISBN 8496424359.
- Eldridge, Henri J.. Defectos comunes. Barcelona: Gustavo Gili, 1982. ISBN 8425210925.
- Monjo Carrió, Juan; Maldonado Ramos, Luis. Manual de inspección técnica de edificios. Madrid: Munilla-Lería, DL 2002. ISBN 8489150524.
- Curso de rehabilitación. Madrid: Servicio de Publicaciones del Colegio Oficial de Arquitectos, 1984-1988. ISBN 84774000671.
- Muñoz Hidalgo, Manuel. Diagnósis y causas en patología de la edificación. Sevilla: l'autor, DL 1994. ISBN 8460490130.
- Abásolo, Andrés. Tratado de rehabilitación (vol. 2). Metodología de la restauración y de la. Madrid: Munilla-Lería, 1998. ISBN 8489150338.
- Curso de patología : conservación y restauración de edificios. Madrid: Colegio Oficial de Arquitectos de Madrid. Comisión de Asuntos Tecnológicos, 1995. ISBN 8477400806.
- Muñoz Hidalgo, Manuel. Conceptos y patología en la edificación. Sevilla: l'autor, 1988. ISBN 8440420862.

Complementary:

- Díaz Gómez, César; Casado Martínez, Natividad. Inspecció i diagnosi : pautes per a la intervenció en els edificis d'habitatge. [Barcelona]: Col·legi d'Arquitectes de Catalunya, Demarcació de Barcelona, 2002. ISBN 8488258941.