Course guide
290193 - CRITER14 - Rehabilitation Criteria and Techniques

Unit in charge: Vallès School of Architecture
Teaching unit: 753 - TA - Department of Architectural Technology.
Degree: DEGREE IN ARCHITECTURE STUDIES (Syllabus 2014). (Optional subject).
Academic year: 2022  ECTS Credits: 4.5  Languages: Catalan

LECTURER

Coordinating lecturer: MONTSERRAT CUCURELLA
MANEL GONZALEZ

Others: MONTSERRAT CUCURELLA (Professora Responsable)
MANEL GONZALEZ

TEACHING METHODOLOGY

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LEARNING OBJECTIVES OF THE SUBJECT

1. Learn to analyze pre-existence: structure, construction systems, facilities, etc.
2. Relate and incorporate rehabilitation as an inherent part of contemporary architecture.
3. Know the construction processes of execution justifying the most appropriate intervention.
4. Learn to "manipulate" and work with the techniques and materials that are part of it.
5. Evaluate and analyze the cost estimate; understood as a direct cause of being able to approach the project and the subsequent intervention.
CONTENTS

Criteria and rehabilitation techniques

Description:
Types of architectural interventions in the built park. Learn more about the most recent types of actions and their constructive reason. Explanation by means of practical examples of: rehabilitations; restorations and others.
Diagnosis methodology. Know the process for making a diagnosis, how to carry it out, what documents are generated and what conclusions need to be drawn.
Debate on the subject
The rehabilitation project. Strategies, contents, definition of order and sections, work programs, budget orientation and others.
Debate on the subject
Visit to workshop / company applied to the contents.
Debate on the subject
Structure. To delve into structural injuries and possible intervention techniques and new construction systems. Explain an intervention project focused basically on these aspects. The wall as an example.
Debate on the subject
Enveloping. To delve into the injuries of the envelope, both roofs and facades, and the possible intervention techniques and construction systems. Explain an intervention project focused basically on these aspects.
Debate on the subject
Vertical communications. Deepen the injuries of the stairs and the intervention techniques. Explain an intervention project focused basically on these aspects. The Catalan vault as an example.
Debate on the subject
Work visit applied to the contents.
Debate on the subject
Internal interventions. To delve into the injuries of the coatings and the possible intervention techniques and new construction systems. Explain an intervention project focused basically on these aspects.
Debate on the subject
Materials recovery + example recovery works. Deepen the possibility of recovering materials in a work: strategies and processes to follow to carry it out. Explain an intervention project focused basically on these aspects.
Debate on the subject
Heritage interventions. Deepen the interventions in heritage protected buildings: know how to approach the project, the criteria and intervention techniques. Explain an intervention project focused basically on these aspects.
Debate on the subject.
Visit to a recently rehabilitated building
Debate on the subject

Full-or-part-time: 3h
Theory classes: 3h

GRADING SYSTEM
**BIBLIOGRAPHY**

**Basic:**
- Curso de Patología (4 volúmenes) Colegio Oficial de Arquitectos de Madrid.
- Manuais de diagnosi. (9 volums) Col·legi Oficial de Aparelladors i Arquitectes Tècnics de Barcelona.
- Llibres gruixits que es poden descarregar en formato PDF (Serveis>llibres gruixits) [on line]. Available on: http://www.itec.cat.
- Fichas de rehabilitación. (2ª edició) (ITEC).
- Recomanacions per el reconeixement, la diagnosis i la teràpia de fonaments. (ITEC).
- Estructures 1. Tècniques de recalçament dels fonaments. (ITEC).