Course guides

310739 - 310739 - Workshop 7: Rehabilitation

Unit in charge: Barcelona School of Building Construction
Teaching unit: 732 - OE - Department of Management,
753 - TA - Department of Architectural Technology,
752 - RA - Departamento de Representación Arquitectónica,
751 - DECA - Department of Civil and Environmental Engineering,
756 - THATC - Department of History and Theory of Architecture and Communication Techniques.

Degree: BACHELOR’S DEGREE IN ARCHITECTURAL TECHNOLOGY AND BUILDING CONSTRUCTION (Syllabus 2019).
(Compulsory subject).

Academic year: 2021   ECTS Credits: 7.5   Languages: Catalan, Spanish, English

LECTURER

Coordinating lecturer: Gibert Armengol, Vicente

Others: Gibert Armengol, Vicente
        Gomez Val, Ricardo Jose
        Agustiño Otero, Manuel
        Pascual Mo, Jordi
        Royano García, Verónica
        Olona Casas, Joan
        Hormias Laperal, Emilio

PRIOR SKILLS

Knowledge of pathology and diagnosis.

TEACHING METHODOLOGY

The directed learning hours consist of:
- Theoretical classes (large group) in which the teacher makes a presentation to introduce the general learning objectives related to the basic concepts of the subject. It also promotes the involvement of students in their learning, interspersing questions and / or practical exercises, motivating active participation in the classroom. Support material that is available to students through ATENEA is used: course programming, PDF presentations of the PowerPoint files projected in class and recommended bibliography.
- Practical classes (medium group) in which students work in groups of between 3 and 5 members by solving exercises related to the specific learning objectives of each of the contents of the subject. In these works, the transversal competence of Sustainability and Social Commitment is applied by incorporating these concepts into their subject matter.
- Autonomous learning is limited to assimilating and internalizing the topics of theoretical classes and recommended readings, as well as research and the use of computer applications related to the rehabilitation of buildings.

LEARNING OBJECTIVES OF THE SUBJECT

At the end of the course, the student should be able to:
- Analyze the strategic approach to action within a rehabilitation program.
- Evaluate which computer tools available in the sector are adjusted to the needs of the project.
- Identify which documents should be part of a basic rehabilitation project and how the client's needs are considered.
- Elaborate the technical sections that formalize an executive project of rehabilitation from a basic project.
- Generate specific construction details of a rehabilitation project.
STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self study</td>
<td>112,5</td>
<td>60.00</td>
</tr>
<tr>
<td>Hours small group</td>
<td>75,0</td>
<td>40.00</td>
</tr>
</tbody>
</table>

Total learning time: 187.5 h

CONTENTS

UNIT 1: PROJECT ANALYSIS AND APPROACH

Description:
This unit works on:
· The architectural features that are recurring in buildings.
· The tools needed to manage the information of a project.
· The content of the rehabilitation project to be developed.

Specific objectives:
Classify the most significant variables of an architectural model.
Determine the singularities of the client profile residing in the building.
Structure the subsystems and elements that are part of the building.
Choose a tool with the ability to manage graphic and non-graphic information.

Related activities:
Theoretical explanation classes.
Development of Group Work 1: Needs for a rehabilitation project.
Cross-defense of Group 1 work: Improvements are proposed to the work of other groups.
Self-defense of Group Work 1: This part will contribute to the defense of the final work, together with the other parts.

Full-or-part-time: 62h
Theory classes: 14h 30m
Practical classes: 10h 30m
Self study: 37h
### UNIT 2: BASIC AND EXECUTIVE PROJECT

**Description:**
This unit works on:
- The needs of adaptation of a rehabilitation project in function of the normative technical requirements and of the requirements of the customer.
- The structure of a basic project and the documents that make it up.
- The documents that complement and justify an executive project.

**Specific objectives:**
- Assess subsystems susceptible to rehabilitation need.
- Prepare the regulatory documents that must be included in a basic project.
- Prepare the supporting documents to be included in an executive project.

**Related activities:**
- Theoretical explanation classes.
- Development of Group Work 2: Approach to a basic and executive project.
- Cross-defense of Group 2 work: Improvements are proposed to the work of other groups.
- Self-defense of Group 2 work: This part will contribute to the defense of the final work, together with the other parts.

**Full-or-part-time:** 87h
- Theory classes: 12h
- Practical classes: 23h
- Self study: 52h

### UNIT 3: CONSTRUCTION DETAILS

**Description:**
This unit works on:
- The forms of detailed graphic representation of an intervention following its model of execution.
- The auxiliary means of safety and prevention and the economic costs linked to the proposed intervention.
- The repercussion of executing the intervention in a situation of presence of the property.

**Specific objectives:**
- Determine the chronological phases of execution within a constructive detail.
- Represent graphically the different phases of the intervention with the necessary auxiliary means.
- Formalize a summary sheet where it appears: the graphic representation, the budget, the necessary auxiliary means and the environmental impact.

**Related activities:**
- Theoretical explanation classes.
- Development of the Work 3 in group: Realization of constructive details.
- Cross-defense of Group Work 3: Improvements to the work of other groups are proposed.
- Self-defense of Group Work 3: This part will contribute to the defense of the final work, together with the other parts.

**Full-or-part-time:** 37h
- Theory classes: 4h
- Practical classes: 11h
- Self study: 22h
GRADING SYSTEM

The final grade is the sum of the following partial grades:

Qfinal (100%) = Qdc (70%) + Qdp (30%)

Being:

Qfinal: final grade (100%)
Qdc: qualification of crossed defenses, in which each group proposes improvements to the work of other groups (70%) - Blocks 1, 2 and 3.
Qdp: rating of own defenses, in which each group defends its work (30%) - Final defense

Where:

Qdc (70%) = Qdc1 (20%) + Qdc2 (30%) + Qdc3 (20%)

EXAMINATION RULES.

Continuous evaluation: If any of the training activities is not carried out, it will be considered as not scored and not recoverable.

BIBLIOGRAPHY

Basic:

Complementary:

RESOURCES

Hyperlink: