Course guide
290627 - ESTRUCIV14 - Reinforced Concrete Structures

Unit in charge: Vallès School of Architecture
Teaching unit: 753 - TA - Department of Architectural Technology.
Degree: DEGREE IN ARCHITECTURE STUDIES (Syllabus 2014). (Compulsory subject).
Academic year: 2022 ECTS Credits: 3.0 Languages: Catalan, Spanish

LECTURER
Coordinating lecturer: Gimferrer Vilaplana, Xavier
Others: Gimferrer Vilaplana, Xavier
Jaen Gonzalez, Carlos
Palmero, Maria Fabiana

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
ET7G. The ability to conceive, calculate, design and implement systems for the division of interiors, carpentry, stairs and other finishing work and integrate them into existing buildings and urban areas (T).
ET2G. An aptitude for applying technical and building standards.
ET6G. The ability to conceive, calculate, design and erect building structures and integrate them into existing buildings and urban areas (T).

Generical:
CE1. An aptitude for creating architectural projects that meet both aesthetic and technical demands.
CE8. An understanding of structural, construction and engineering design problems related to building design.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

The objective is for the student to understand and learn the general basic concepts for the overall design of building structures, the approach and suitability of the structural typology and material used (reinforced concrete). Likewise, the course aims to establish the fundamental concepts to deepen and expand later on more specific or complex subjects through optional subjects and postgraduate programs.

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Self study</td>
<td>42,0</td>
<td>56.00</td>
</tr>
<tr>
<td>Hours large group</td>
<td>16,5</td>
<td>22.00</td>
</tr>
<tr>
<td>Hours medium group</td>
<td>16,5</td>
<td>22.00</td>
</tr>
</tbody>
</table>

Total learning time: 75 h
CONTENTS

**Syllabus**

**Description:**
The objective is for the student to understand and learn the general basic concepts for the overall design of building structures, the approach and suitability of the structural typology and material used (reinforced concrete). Likewise, the course aims to establish the fundamental concepts to deepen and expand later on more specific or complex subjects through optional subjects and postgraduate programs.

**Full-or-part-time:** 33h
Theory classes: 16h 30m
Practical classes: 16h 30m

GRADING SYSTEM

BIBLIOGRAPHY

**Basic:**