Course guide
290611 - ESTRUCI14 - Efforts and Tensions

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: 4.0  Languages: Catalan

LECTURER

Coordinating lecturer: JORDI PAYOLA LAHOZ
Others: Primer i segon quadrimestre:
        DAVID GARCÍA CARRERA - 1
        JORDI PAYOLA LAHOZ - 1

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
EAB11G. Applied knowledge of numerical calculus, analytic and differential geometry and algebraic methods.
ET13G. Adequate knowledge of solid, continuum and soil mechanics and the plastic, elastic and strength behaviour of heavy building materials.

Generical:
CG4G. An understanding of structural, construction and engineering design problems related to building design and techniques for solving them.
CG5G. Knowledge of the physical problems, technologies and functions of buildings so as to provide them with comfortable indoor conditions and protection from climate factors.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

Recognize links, stresses and tensions in isostatic steel structures

STUDY LOAD

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<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Hours medium group</td>
<td>22,0</td>
<td>22.00</td>
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<tr>
<td>Hours large group</td>
<td>22,0</td>
<td>22.00</td>
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<tr>
<td>Self study</td>
<td>56,0</td>
<td>56.00</td>
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Total learning time: 100 h
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<th>Syllabus</th>
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<tr>
<td><strong>Description:</strong></td>
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<td>Analysis and study of material resistance.</td>
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**Full-or-part-time:** 44h  
Theory classes: 22h  
Practical classes: 22h

# GRADING SYSTEM

## BIBLIOGRAPHY

**Basic:**