250714 - Structural Technology Seminars

Coordinating unit: 250 - ETSECCPB - Barcelona School of Civil Engineering
Teaching unit: 751 - DECA - Department of Civil and Environmental Engineering
Academic year: 2019
Degree: MASTER'S DEGREE IN STRUCTURAL AND CONSTRUCTION ENGINEERING (Syllabus 2015).
(Teaching unit Optional)
ECTS credits: 2,5
Teaching languages: Catalan, Spanish, English

Teaching staff

Coordinator: CLIMENT MOLINS BORRELL
Others: ANGEL CARLOS APARICIO BENGOECHEA, JESÚS MIGUEL BAIRÁN GARCÍA, IGNACIO CASANOVA HORMAECHEA, ANTONIO RICARDO MARI BERNAT, CLIMENT MOLINS BORRELL, EVA OLLER IBARS, ESTHER REAL SALADRIGAS

Degree competences to which the subject contributes

Specific:
13364. To conceive and design civil and building structures that are safe, durable, functional and integrated into its surroundings.
13365. Designing and building using traditional materials (reinforced concrete, prestressed concrete, structural steel, masonry, wood) and new materials (composites, stainless steel, aluminum, shape memory alloys?).
13366. To evaluate, maintain, repair and strengthen existing structures, including the historic and artistic heritage.
13369. To apply methods and advanced design software and structural calculations, based on knowledge and understanding of forces and their application to the structural types of civil engineering.

General:
13360. To conceive, design, analyze and manage structures or structural elements of civil engineering or building, encouraging innovation and the advance of knowledge.
13361. To develop, improve and use conventional materials and new construction techniques to ensure the safety requirements, functionality, durability and sustainability.
13362. To define construction processes and methods of organization and management of projects and works.

Learning objectives of the subject
### Study load

<table>
<thead>
<tr>
<th></th>
<th>Hours</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Hours large group:</td>
<td>10h 49.8m</td>
<td>17.33%</td>
</tr>
<tr>
<td>Hours medium group:</td>
<td>5h 25.8m</td>
<td>8.69%</td>
</tr>
<tr>
<td>Hours small group:</td>
<td>5h 25.8m</td>
<td>8.69%</td>
</tr>
<tr>
<td>Guided activities:</td>
<td>0h 49.2m</td>
<td>1.31%</td>
</tr>
<tr>
<td>Self study:</td>
<td>40h</td>
<td>63.99%</td>
</tr>
</tbody>
</table>
Total learning time: 62h
# 250714 - Structural Technology Seminars

## Content

<table>
<thead>
<tr>
<th>Seminars Structural Technology</th>
<th>Learning time: 51h 36m</th>
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<tbody>
<tr>
<td></td>
<td>Theory classes: 20h 30m</td>
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<tr>
<td></td>
<td>Laboratory classes: 1h</td>
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<td></td>
<td>Self study: 30h 06m</td>
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## Bibliography

**Basic:**

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