250724 - Construction 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: Spanish

Teaching staff
Coordinator: GONZALO RAMOS SCHNEIDER
Others: ALBERTO DE LA FUENTE ANTEQUERA, GONZALO RAMOS SCHNEIDER, IGNACIO VALERO LOPEZ

Degree competences to which the subject contributes

Specific:
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?).
13367. To apply innovative and sustainable technological aspects in the management and implementation of projects and works.
13370. To analyze the multiple technical and legal conditions arising in the construction of public works, and use proven methods and proven technologies with the aim of achieving greater efficiency in construction while respecting the environment and protecting the safety and health of workers and users of public works.

General:
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.
13363. To design plans for safety, quality and environmental and socioeconomic impacts related to the construction process.

Teaching methodology
The course consists of 11 seminars of 2 hours.
Support material in virtual campus ATENEA

Learning objectives of the subject
Subject to acquire knowledge on trends in recent research related to construction
- Ability to acquire knowledge in the more advanced aspects of research on construction
Recent research progress on construction
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### Study load

<table>
<thead>
<tr>
<th></th>
<th>Hours</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Theory classes:</td>
<td>10h 49m</td>
<td>17.32%</td>
</tr>
<tr>
<td>Practical classes:</td>
<td>5h 25m</td>
<td>8.69%</td>
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<tr>
<td>Laboratory classes:</td>
<td>5h 25m</td>
<td>8.69%</td>
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<tr>
<td>Guided activities:</td>
<td>0h 49m</td>
<td>1.33%</td>
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<tr>
<td>Self study:</td>
<td>40h</td>
<td>63.98%</td>
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| Total learning time: | 62h |

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<th>31,2m</th>
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## Content

<table>
<thead>
<tr>
<th>Construction Seminars</th>
<th>Learning time: 51h 36m</th>
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<tbody>
<tr>
<td></td>
<td>Theory classes: 21h 30m</td>
</tr>
<tr>
<td></td>
<td>Self study: 30h 06m</td>
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**Description:**
Seminars

## Qualification system

The mark of the course is obtained from the attendance to the seminars.

## Regulations for carrying out activities

Minimum attendance is 80% of the seminars.

## Bibliography

**Basic:**
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Last update: 16-12-2019

Universitat Politècnica de Catalunya