250729 - Safety and Health in Construction

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: 5
Teaching languages: Spanish

Teaching staff
Coordinator: GONZALO RAMOS SCHNEIDER
Others: GONZALO RAMOS SCHNEIDER, MANUEL VALDES LOPEZ, IGNACIO VALERO LOPEZ

Degree competences to which the subject contributes

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

Learning objectives of the subject

Study load

<table>
<thead>
<tr>
<th>Total learning time: 125h</th>
<th>Hours large group: 19h 30m</th>
<th>15.60%</th>
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<tbody>
<tr>
<td></td>
<td>Hours medium group: 9h 45m</td>
<td>7.80%</td>
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<tr>
<td></td>
<td>Hours small group: 9h 45m</td>
<td>7.80%</td>
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<td>Guided activities: 6h</td>
<td>4.80%</td>
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<td></td>
<td>Self study: 80h</td>
<td>64.00%</td>
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Content

<table>
<thead>
<tr>
<th>Master Classes</th>
<th>Learning time: 93h 36m</th>
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<tbody>
<tr>
<td></td>
<td>Theory classes: 20h</td>
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<tr>
<td></td>
<td>Laboratory classes: 19h</td>
</tr>
<tr>
<td></td>
<td>Self study: 54h 36m</td>
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</tbody>
</table>

Bibliography

Basic:

- Varios. Gestión de la Prevención de Riesgos Laborales. Mutua Universal,
- Varios. Recomendaciones relativas a Seguridad y Salud para la ejecución de estructuras. ACHE,
- Varios. Seguridad y Salud en la Construcción. ETOSA,