Degree competences to which the subject contributes

Basic:
- CB7. The students must be able to apply the acquired knowledges and their ability of resolution of problems in new or little known environments inside more wide environments (or multidisciplinary) related with their study field.

Specific:
- CE04MUGE. Apply audit techniques to construction processes, in the areas of quality, safety and environment.
- CE05MUGE. Implement management models of resources in companies in the sector of construction
- CE10MUGE. Design indicator systems for building processes.
- CE12MUGE. Apply management models suitable for edification processes
- CE13MUGE. Implement standardized systems of integrated management (quality, safety and environment)

General:
- CG4MUGE. Analyse, evaluate and synthesise critically, the information to propose solutions or alternatives to situations arising from building management processes.

Transversal:
- 05 TEQ. TEAMWORK. Being able to work as a team player, either as a member or as a leader. Contributing to projects pragmatically and responsibly, by reaching commitments in accordance to the resources that are available.

Teaching methodology

The subject Gestió Integrada PRL, Q i MA tries to create narrow links between the theoretical knowledge and the practical application throughout the different class sessions (2 weekly hours). Under this concept, the implication of the student in the theoretical and practical sessions is fundamental to ensure an enough learning process.

Learning objectives of the subject

At the end of the course students must be able to:

- Design an integrated management system based on international standards
- Conduct audits of management systems
- Develop systems of indicators that help to improve continuously processes and management systems of the
### Study load

<table>
<thead>
<tr>
<th></th>
<th>Hours large group:</th>
<th>Total learning time: 125h</th>
<th>Hours medium group:</th>
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<tr>
<td></td>
<td>Hours small group:</td>
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<tr>
<td>Guided activities:</td>
<td>7h 30m</td>
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<tr>
<td>Self study:</td>
<td>90h</td>
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<td>Self study:</td>
<td>72.00%</td>
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### Content

<table>
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<tr>
<th>title english</th>
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<tbody>
<tr>
<td></td>
<td>Theory classes: 2h</td>
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<tr>
<td></td>
<td>Practical classes: 1h</td>
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<tr>
<td></td>
<td>Guided activities: 1h 15m</td>
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<tr>
<td></td>
<td>Self study: 4h 45m</td>
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</tbody>
</table>

**Description:**
In this content the students will see:

1.1 Current Management Principles  
1.2 Management based on processes  
1.3 The continuous improvement  
1.4 Orientation towards the achievement of objectives  
1.5 Standardized management systems and certification processes

<table>
<thead>
<tr>
<th>2.- Quality management</th>
<th>Learning time: 27h</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Theory classes: 2h</td>
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<tr>
<td></td>
<td>Practical classes: 4h</td>
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<tr>
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<td>Guided activities: 1h 15m</td>
</tr>
<tr>
<td></td>
<td>Self study: 19h 45m</td>
</tr>
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</table>

**Description:**
In this content the students will see:

2.1 Organization of quality in the building  
2.2 Quality of the project, materials and execution of work  
2.3 Models of quality management

<table>
<thead>
<tr>
<th>3.- Environmental management</th>
<th>Learning time: 27h</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Theory classes: 4h</td>
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<tr>
<td></td>
<td>Practical classes: 2h</td>
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<tr>
<td></td>
<td>Guided activities: 1h 15m</td>
</tr>
<tr>
<td></td>
<td>Self study: 19h 45m</td>
</tr>
</tbody>
</table>

**Description:**
In this content the students will see:

3.1 Sustainability in building  
3.2 Management of environmental aspects in building  
3.3 Models of environmental management
### 4.- Occupational Health and Safety management

**Learning time:** 27h  
- Theory classes: 4h  
- Practical classes: 2h  
- Guided activities: 1h 15m  
- Self study: 19h 45m

**Description:**  
In this content the students see:  
- 4.1 Occupational accidents and diseases  
- 4.2 Situation of the construction sector  
- 4.3 Basis for activities of occupational health and safety  
- 4.4 Risk management in construction  
- 4.5 Occupational health and safety management systems

### 5.- Integrated management systems

**Learning time:** 42h  
- Theory classes: 6h  
- Practical classes: 3h  
- Guided activities: 1h 15m  
- Self study: 31h 45m

**Description:**  
In this content the students see:  
- 5.1 Key aspects of the integration of management systems  
- 5.2 Integration Methodologies  
- 5.3 Benefits and difficulties in integrating management systems  
- 5.4 Technical improvement of an integrated system

### Qualification system

The evaluation of the student’s achievement will be done considering these parameters:

Final mark = (0.60 x CC) + (0.40 x EF)

**Being:**

- Short practical cases (in-person) (CC): 60%
- Final Exam (EF): 40%
Bibliography

Basic:


