Course guide  
310504 - 310504 - Integrated Management Prl, Q & Ma

Unit in charge: Barcelona School of Building Construction  
Teaching unit:  
732 - OE - Department of Management.  
753 - TA - Department of Architectural Technology.  
Degree: MASTER'S DEGREE IN BUILDING CONSTRUCTION MANAGEMENT (Syllabus 2015). (Compulsory subject).  
Academic year: 2022  
ECTS Credits: 5.0  
Languages: Spanish

LECTURER

Coordinating lecturer: Abad Puente, Jesus  
Others: Abad Puente, Jesus  
Gaspar Fàbregas, Kàtia

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

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.

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.

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 organization
STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours small group</td>
<td>5,0</td>
<td>4.00</td>
</tr>
<tr>
<td>Guided activities</td>
<td>7,5</td>
<td>6.00</td>
</tr>
<tr>
<td>Hours medium group</td>
<td>5,0</td>
<td>4.00</td>
</tr>
<tr>
<td>Self study</td>
<td>90,0</td>
<td>72.00</td>
</tr>
<tr>
<td>Hours large group</td>
<td>17,5</td>
<td>14.00</td>
</tr>
</tbody>
</table>

Total learning time: 125 h

CONTENTS

1.- Introduction to management systems

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

Full-or-part-time: 9h
Theory classes: 2h
Practical classes: 1h
Guided activities: 1h 15m
Self study: 4h 45m

2.- Quality management

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 Quality management systems

Full-or-part-time: 27h
Theory classes: 2h
Practical classes: 4h
Guided activities: 1h 15m
Self study: 19h 45m
3.- Environmental management

**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

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

4.- Occupational Health and Safety management

**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

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

5.- Integrated management systems

**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

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