310505 - Process and Projects Management.Pmi

Coordinating unit: 310 - EPSEB - Barcelona School of Building Construction
Teaching unit: 753 - TA - Department of Architectural Technology
Academic year: 2019
Degree: MASTER’S DEGREE IN BUILDING CONSTRUCTION MANAGEMENT (Syllabus 2015). (Teaching unit Compulsory)
ECTS credits: 5
Teaching languages: Catalan, Spanish

Teaching staff
Coordinator: Gaspar Fàbregas, Kàtia
Others: Avellaneda Lopez, Alina
Leiva Navarro, Juan

Degree competences to which the subject contributes

Basic:
CB8. The students must be able to integrate knowledges and front to the complexity to formulate opinions from an information which, being incomplete or limited, includes reflections about the social and ethical responsibilities linked to the application of their knowledges and opinions.

Specific:
CE03MUGE. Manage strategic and infrastructure planning and programming and apply to the management, planning and control of operations.
CE12MUGE. Apply management models suitable for edification processes

Generic:
CG2MUGE. Manage projects in the field of construction.

Transversal:
01 EIN. ENTREPRENEURSHIP AND INNOVATION: Knowing about and understanding how businesses are run and the sciences that govern their activity. Having the ability to understand labor laws and how planning, industrial and marketing strategies, quality and profits relate to each other.
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
Master class.
Expository participative class.
Practices.

Learning objectives of the subject
At the end of the subject the students must be able to:
- Know the management systematic for projects by means of PMI models.
- Acquire the ability to organise the activities which contain a project.
- Manage complex projects in the construction process.
## Study load

<table>
<thead>
<tr>
<th><strong>Total learning time:</strong> 125h</th>
<th>Hours large group: 17h 30m 14.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group: 5h 4.00%</td>
</tr>
<tr>
<td></td>
<td>Hours small group: 5h 4.00%</td>
</tr>
<tr>
<td></td>
<td>Guided activities: 7h 30m 6.00%</td>
</tr>
<tr>
<td></td>
<td>Self study: 90h 72.00%</td>
</tr>
</tbody>
</table>
## Content

### CONTENT 1. STRUCTURE OF THE PROJECT MANAGEMENT

**Description:**
In this content the students work:
- Introduction to the concept of project and project management.
- Introduction to the groups of processes.
- Introduction to the areas of knowledge.
- Introduction to the processes in the project management.

**Related activities:**
Activity 1. Practical case 1.

**Specific objectives:**
Introductory topic of the subject.
Understand the basic principles of project management according to the model of Project Management Institute.

<table>
<thead>
<tr>
<th>Learning time: 58h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory classes: 8h</td>
</tr>
<tr>
<td>Practical classes: 6h</td>
</tr>
<tr>
<td>Guided activities: 7h</td>
</tr>
<tr>
<td>Self study: 37h</td>
</tr>
</tbody>
</table>

### CONTENT 2. MANAGEMENT OF BUILDING PROCESSES

**Description:**
In this content the students work:
- Analysis of the phases of building process.
- Application of the concepts of project management into the phases of building process.

**Related activities:**
Activity 2. Practical case 2.
Activity 3. Case study.

**Specific objectives:**
Understand the processes of the building cycle.
Apply the project management in the processes of the building cycle.

<table>
<thead>
<tr>
<th>Learning time: 67h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory classes: 7h</td>
</tr>
<tr>
<td>Practical classes: 9h</td>
</tr>
<tr>
<td>Guided activities: 8h</td>
</tr>
<tr>
<td>Self study: 43h</td>
</tr>
</tbody>
</table>

## Qualification system

Final exam: 30%

Activities: 70%
- Activity Practical Case 1: 20%
- Activity Practical Case 2: 40%
- Activity Case Study: 10%
Bibliography

**Basic:**


**Complementary:**