820064 - PI - Facilities Projects

Coordinating unit: 295 - EEBE - Barcelona East School of Engineering
Teaching unit: 717 - EGE - Department of Engineering Presentation
Academic year: 2017
Degree: BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN BIOMEDICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN MATERIALS ENGINEERING (Syllabus 2010). (Teaching unit Optional)

ECTS credits: 6
Teaching languages: Catalan

Teaching staff
Coordinator: N. OLMEDO

Others:

Requirements
have completed Q7

Degree competences to which the subject contributes

Specific:
1. Study the feasibility of a proposed project.

Transversal:
2. TEAMWORK - Level 3. Managing and making work groups effective. Resolving possible conflicts, valuing working with others, assessing the effectiveness of a team and presenting the final results.
3. SELF-DIRECTED LEARNING - Level 3. Applying the knowledge gained in completing a task according to its relevance and importance. Deciding how to carry out a task, the amount of time to be devoted to it and the most suitable information sources.

Teaching methodology
The unfulfilled methodology uses the exhibition by 25% in individual workplaces by 25%, a job in the group by 20% and the Learning Projects based on 30%. 

Learning objectives of the subject
Learn to make different Facilities Engineering Projects from a practical perspective, covers design, the rules, calculations, plans and budgets inherent to these embodiments.
### Study load

<table>
<thead>
<tr>
<th>Total learning time: 150h</th>
<th>Hours large group: 30h</th>
<th>20.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours medium group: 0h</td>
<td></td>
<td>0.00%</td>
</tr>
<tr>
<td>Hours small group: 30h</td>
<td>0h</td>
<td>20.00%</td>
</tr>
<tr>
<td>Guided activities: 0h</td>
<td>90h</td>
<td>60.00%</td>
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<tr>
<td>Self study:</td>
<td></td>
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</tbody>
</table>

Total learning time: 150h

Hours large group: 30h

Hours medium group: 0h

Hours small group: 30h

Guided activities: 0h

Self study: 90h

Study load
## Content

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Learning time</th>
<th>Theory classes</th>
<th>Self study</th>
<th>Laboratory classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>INTRODUCTION A LEGAL AND REGULATORY BASIC INDUSTRIAL</td>
<td>3h</td>
<td>1h</td>
<td>2h</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>DATA AND BASIC CRITERIA FOR DESIGN OF SPECIFIC INSTALLATIONS</td>
<td>3h</td>
<td>1h</td>
<td>2h</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>LIGHTING PROJECTS</td>
<td>6h</td>
<td>1h</td>
<td>1h</td>
<td>4h</td>
</tr>
<tr>
<td>4</td>
<td>ELECTRICAL SYSTEMS PROJECTS</td>
<td>9h</td>
<td>2h</td>
<td>1h</td>
<td>6h</td>
</tr>
<tr>
<td>5</td>
<td>INDUSTRIAL SECURITY MEASURES</td>
<td>9h</td>
<td>2h</td>
<td>1h</td>
<td>6h</td>
</tr>
<tr>
<td>6</td>
<td>PLUMBING PROJECTS</td>
<td>9h</td>
<td>2h</td>
<td>1h</td>
<td>6h</td>
</tr>
</tbody>
</table>
### (ENG) - Chapter 7. VENTILATION PROJECTS

**Learning time:** 9h  
- Theory classes: 1h  
- Laboratory classes: 2h  
- Self study: 6h

### (ENG) - Chapter 8. ALTERNATIVE ENERGY

**Learning time:** 6h  
- Laboratory classes: 2h  
- Self study: 4h
Planning of activities

<table>
<thead>
<tr>
<th>(ENG) LLIÇÓ 1. INTRODUCCIÓ A L'ENGINYERIA LEGAL I NORMATIVA INDUSTRIAL BàSICA</th>
<th>Hours: 3h</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Theory classes: 1h</td>
</tr>
<tr>
<td></td>
<td>Practical classes: 1h</td>
</tr>
<tr>
<td></td>
<td>Laboratory classes: 1h</td>
</tr>
</tbody>
</table>

Evaluation system

Evaluation of continuing workplaces estudiante. It assesses the estudiante autonomous and the workplace, as well as in groups, both face as distance, applied to all the activities formativas.

- Assessment in each individual autonomous Contenidos MEETING of learning theorists. 15%
- Assessment by individual home FINANCIAL region. 20%
- Assessment of the individual cases prácticos habilidades adquiridas in them. 20%
- Evaluation of Projects of the group (including "Work team"). 40% The weights in the final of the transversal competencies of 5% each.
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Bibliography

Basic:


Others resources: