

## 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 CHEMICAL 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.



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### Study load

Total learning time: 150h	Hours large group:	30h	20.00%
	Hours medium group:	0h	0.00%
	Hours small group:	30h	20.00%
	Guided activities:	0h	0.00%
	Self study:	90h	60.00%

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### Content

(ENG) -Chapter 1. INTRODUCTION A LEGAL AND REGULATORY BASIC INDUSTRIAL	Learning time: 3h Theory classes: 1h Self study : 2h
(ENG) -Chapter 2. DATA AND BASIC CRITERIA FOR DESIGN OF SPECIFIC INSTALLATIONS	Learning time: 3h Theory classes: 1h Self study : 2h
(ENG) -Chapter 3. LIGHTING PROJECTS	Learning time: 6h Theory classes: 1h Laboratory classes: 1h Self study : 4h
(ENG) -Chapter 4. ELECTRICAL SYSTEMS PROJECTS	Learning time: 9h Theory classes: 2h Practical classes: 1h Self study : 6h
(ENG) -Chapter 5. INDUSTRIAL SECURITY MEASSURES	Learning time: 9h Theory classes: 2h Practical classes: 1h Self study : 6h
(ENG) -Chapter 6. PLUMBING PROJECTS	Learning time: 9h Theory classes: 2h Laboratory classes: 1h Self study : 6h



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(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

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### Planning of activities

(ENG) LLIÇÓ 1. INTRODUCCIÓ A L'ENGINYERIA LEGAL I NORMATIVA INDUSTRIAL BÀSICA	Hours: 3h Theory classes: 1h Practical classes: 1h Laboratory classes: 1h
(ENG) LLIÇÓ 2. DADES I CRITERIS BÀSICS EN DISSENY DE INSTAL.LACIONS ESPECÍFIQUES	
(ENG) LLIÇÓ 3 .- PROJECTES D'IL-LUMINACIÓ	
(ENG) LLIÇÓ 4. PROJECTES D'ELECTRIFICACIÓ	
(ENG) LLIÇÓ 5 PROJECTES DE SISTEMES DE PROTECCIÓ CONTRA INCENDIS	
(ENG) LLIÇÓ 6. PROJECTES D'INSTAL.LACIONS D'AIGUA	
(ENG) LLIÇÓ 7. PROJECTES DE VENTILACIÓ	
(ENG) LLIÇÓ 8 .- PROJECTES D'INSTALACIONS DE CALEFACCIÓ I ACS PER ENERGIA SOLAR	

### Qualification 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:

Código Técnico de la Edificación : (C.T.E.). Madrid: Ministerio de Vivienda : Boletín Oficial del Estado, 2006. ISBN 8434016311.

Guía técnica de aplicación al REBT 2002 : actualizada a febrero de 2009. [Barcelona]: Cano Pina, 2009. ISBN 9788496960312.

Reglamento de seguridad contra incendios, establecimientos industriales y NBE-CPI-96. 2a ed. Barcelona: Ceysa, 2005. ISBN 8486108586.

Reglamento de instalaciones térmicas en los edificios RITE. 5ª ed. Madrid: Paraninfo, cop. 2008. ISBN 9788428330206.

#### Others resources: