

820335 - TFGEN - Bachelor's Thesis

Coordinating unit:	295 - EEBE - Barcelona East School of Engineering
Teaching unit:	710 - EEL - Department of Electronic Engineering
Academic year:	2019
Degree:	BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Teaching unit Project) BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Teaching unit Project)
ECTS credits:	24
Teaching languages:	Catalan, Spanish, English

Teaching staff

Coordinator: Velasco Quesada, Guillermo

Opening hours

Timetable: To specify

Prior skills

It is convenient to have passed all the compulsory subjects of the curriculum.

Requirements

The Bachelor project will be carried out, as a general rule, in the last semester of the degree. The Project should be enrolled in the last semester of the degree, when the student has a maximum of 36 ECTS to be completed. Registering the Project is a prerequisite for enrollment.

Degree competences to which the subject contributes

Specific:

CEENE-TFG. (ENG) Conocimientos y capacidades para organizar y gestionar proyectos. Conocer la estructura organizativa y las funciones de una oficina de proyectos.

Transversal:

03 TLG. THIRD LANGUAGE. Learning a third language, preferably English, to a degree of oral and written fluency that fits in with the future needs of the graduates of each course.

01 EIN N3. ENTREPRENEURSHIP AND INNOVATION - Level 3. Using knowledge and strategic skills to set up and manage projects. Applying systemic solutions to complex problems. Devising and managing innovation in organizations.

02 SCS N3. SUSTAINABILITY AND SOCIAL COMMITMENT - Level 3. Taking social, economic and environmental factors into account in the application of solutions. Undertaking projects that tie in with human development and sustainability.

04 COE N3. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 3. Communicating clearly and efficiently in oral and written presentations. Adapting to audiences and communication aims by using suitable strategies and means.

05 TEQ N3. 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.

06 URI N3. EFFECTIVE USE OF INFORMATION RESOURCES - Level 3. Planning and using the information necessary for an academic assignment (a final thesis, for example) based on a critical appraisal of the information resources used.

07 AAT N3. 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.

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Teaching methodology

Student activities led by the professor.

Reading teaching material, texts and articles related to the contents of the subject.

Student's autonomous work

Learning objectives of the subject

To use tools and techniques for the engineering project management including planning, development and execution. To know and implement rules and specifications. ¿To write text with correct structure to the communication objectives.

To introduce the assessment to the audience following the correct strategies and resources. ¿To identify the need and type of communication register, the surrounding and services within the knowledge field and context.

To develop and implement projects from the original guidelines transmitted by the professor within the aspects written before. ¿To have a proactive attitude that generate new opportunities within a commercial perspective. ¿To be able to evaluate the economic cost (budget) of the different tasks in the project.

To be able to analyse and evaluate the social and environmental impact.

Study load

Total learning time: 600h	Hours large group:	0h	0.00%
	Hours medium group:	0h	0.00%
	Hours small group:	0h	0.00%
	Guided activities:	76h	12.67%
	Self study:	524h	87.33%

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Content

title english	Learning time: 55h Guided activities: 25h Self study : 30h
Description: Preliminary Project, final Project and viability. Phases and concepts	

title english	Learning time: 55h Guided activities: 25h Self study : 30h
Description: content english	

title english	
Degree competences to which the content contributes: Description: content english	

title english	Learning time: 55h Guided activities: 25h Self study : 30h
Description: content english	

title english	
Degree competences to which the content contributes: Description: content english	

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title english	Learning time: 55h Guided activities: 25h Self study : 30h
Description: content english	

title english	Learning time: 125h Guided activities: 25h Self study : 100h
Description: content english	

title english	
Degree competences to which the content contributes: Description: content english	

title english	Learning time: 45h Guided activities: 15h Self study : 30h
Description: content english	

title english	
Degree competences to which the content contributes: Description: content english	

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title english	Learning time: 100h Self study : 100h
Description: content english	
title english	
Degree competences to which the content contributes: Description: content english	
title english	Learning time: 106h Self study : 106h
Description: content english	
title english	Learning time: 4h Guided activities: 4h
Description: content english	

Qualification system

Evaluation from the presentation of a preliminary draft and a public presentation of the work before an assigned university commission. The commission will be take into account:

- Individual work
- Written and oral presentation related to the contents of the subject
- Written and oral presentation of the project before the commission that will assess the acquired competences knowledges and abilities.



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Regulations for carrying out activities

In order to be able to present the work before the assigned commission, the final revision and authorization by the professor director of the final report is necessary.

The work must be presented according to the normalization established by the School. For this purpose, the student will find all the information and templates on the website of the School.

Bibliography