Course guides
300480 - PAE - Applied Engineering Projects

Unit in charge: Castelldefels School of Telecommunications and Aerospace Engineering
Teaching unit: 739 - TSC - Department of Signal Theory and Communications.

Degree: BACHELOR’S DEGREE IN TELECOMMUNICATIONS SYSTEMS ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR’S DEGREE IN NETWORK ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR’S DEGREE IN AEROSPACE SYSTEMS ENGINEERING (Syllabus 2015). (Optional subject).

Academic year: 2020  ECTS Credits: 6.0  Languages: Catalan, Spanish, English

LECTURER

Coordinating lecturer: Definit a la infoweb de l'assignatura
Others: Definit a la infoweb de l'assignatura

PRIOR SKILLS

None

REQUIREMENTS

None

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Transversal:
02 SCS. SUSTAINABILITY AND SOCIAL COMMITMENT. Being aware of and understanding the complexity of social and economic phenomena that characterize the welfare society. Having the ability to relate welfare to globalization and sustainability. Being able to make a balanced use of techniques, technology, the economy and sustainability.
04 COE. EFFICIENT ORAL AND WRITTEN COMMUNICATION. Communicating verbally and in writing about learning outcomes, thought-building and decision-making. Taking part in debates about issues related to the own field of specialization.
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.
06 URI. EFFECTIVE USE OF INFORMATION RESOURCES. Managing the acquisition, structure, analysis and display of information from the own field of specialization. Taking a critical stance with regard to the results obtained.
07 AAT. SELF-DIRECTED LEARNING. Detecting gaps in one's knowledge and overcoming them through critical self-appraisal. Choosing the best path for broadening one's knowledge.
01 EIN N1. ENTREPRENEURSHIP AND INNOVATION - Level 1. Showing enterprise, acquiring basic knowledge about organizations and becoming familiar with the tools and techniques for generating ideas and managing organizations that make it possible to solve known problems and create opportunities.

TEACHING METHODOLOGY
LEARNING OBJECTIVES OF THE SUBJECT

The objective of the course is to work on a multidisciplinary project based on a challenge defined by a company. Students will work on the project in groups of 4, based on the challenge proposed by the company and supervised by it, with the guidance of EETAC professors. Students must propose and analyze possible solutions to the challenge posed. The nature of the challenges will vary depending on the companies that propose them, but in general they will have a high content of innovation and creativity. Businesses often pose real high-level problems, but not in the form of a conventional academic problem.

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self study</td>
<td>90.0</td>
<td>60.00</td>
</tr>
<tr>
<td>Guided activities</td>
<td>60.0</td>
<td>40.00</td>
</tr>
</tbody>
</table>

Total learning time: 150 h

CONTENTS

Applied project

Description:
Students will work on the project in groups of 4, based on the challenge proposed by the company and supervised by it, with the guidance of EETAC professors. Students must propose and analyze possible solutions to the challenge posed. The nature of the challenges will vary depending on the companies that propose them, but in general they will have a high content of innovation and creativity. Businesses often pose real high-level problems, but not in the form of a conventional academic problem.

Full-or-part-time: 150h
Guided activities: 15h
Self study: 135h

GRADING SYSTEM