Course guide
340693 - EMOL - Emobility Lab

Last modified: 03/04/2024

Unit in charge:	Vilanova i la Geltrú School of Engineering
Teaching unit:	709 - DEE - Department of Electrical Engineering.

Degree: BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN INFORMATICS ENGINEERING (Syllabus 2018). (Optional subject).

Academic year: 2024   **ECTS Credits:** 6.0   **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer:	Blanqué Molina, Balduino
Others:	Blanqué Molina, Balduino Aliau Pons, Juan José Monjo Mur, Lluís

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
EMOL01. CE34. Ability to design electric systems and systems of traction in vehivles.
EMOL02. CE19. Applied knowledge in electric engineering.
EMOL03. CE24. Ability to design electronical, analog, digital and power systems.
EMOL04. CE25. Knowledge and ability of systems modeling and simulation.
EMOL05. D53. Ability to associate possibilities to design in each fabrication process.
EMOL06. D55. Ability to analyze components and products.
EMOL07. D57. Ability to redesign products.
EMOL08. D58. Practical knowledge of industrial design methodology.
EMOL09. D60. Practical knowledge of design and component and complex product development.
EMOL10. D61. Practical knowledge of product detail design.
EMOL11. D62. Practical ability to analyze form, composition and structure of products.
EMOL12. CE28. Applied knowledge of industrial and communication computing.

Transversal:
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.
CT3. TEAMWORK: Being able to work in an interdisciplinary team, whether as a member or as a leader, with the aim of contributing to projects pragmatically and responsibly and making commitments in view of the resources that are available.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

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STUDY LOAD

Type	Hours	Percentage
Self study	90,0	60.00
Hours large group	45,0	30.00
Hours small group	15,0	10.00

Total learning time: 150 h

CONTENTS

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title english

Description:
content english

Full-or-part-time: 112h 30m
Theory classes: 33h 45m
Laboratory classes: 11h 15m
Self study : 67h 30m

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title english

Description:
content english

Full-or-part-time: 37h 30m
Theory classes: 11h 15m
Laboratory classes: 3h 45m
Self study : 22h 30m

GRADING SYSTEM