Course guides
820246 - LEIEIA - Industrial Electronics Laboratory

Last modified: 02/06/2015

Unit in charge: Barcelona East School of Engineering
Teaching unit: 710 - EEL - Department of Electronic Engineering.

Degree: BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Optional subject).

Academic year: 2015 **ECTS Credits:** 6.0 **Languages:** Spanish

LECTURER

Coordinating lecturer: MANUEL ROMÁN LUMBRERAS

Others: MANUEL ROMÁN LUMBRERAS

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Transversal:
1. EFFECTIVE USE OF INFORMATI0N 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.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

STUDY LOAD

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

Total learning time: 150 h

CONTENTS

(ENG) Tema 1: Definición de las especificaciones del proyecto de CEEE

(ENG) Tema 2: Sistema de potencia.

(ENG) Tema 3: Cálculo y construcción de los componentes magnéticos

(ENG) Tema 4: Sistema de control

(ENG) Tema 5: Implementación física del proyecto

(ENG) Tema 6: Ensayos

GRADING SYSTEM

BIBLIOGRAPHY

Basic:
- Mohan, N.; Undeland, T. M.; Robbins, W. P. Power electronics : converters, applications, and design. 3rd ed. New York [etc.]: John Wiley & Sons, cop. 2003. ISBN 0471226939.

Complementary:
- Erickson, R. W.; Maksimovic, D. Fundamentals of power electronics [on line]. 2nd ed. Dordrecht: Kluwer Academic Publishers, cop. 2001 [Consultation: 05/03/2012]. Available on: http://link.springer.com/book/10.1007/b100747/page/1. ISBN 0792372700.