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320158 - SEL - Electronic Systems

Coordinating unit: 205 - ESEIAAT - Terrassa School of Industrial, Aerospace and Audiovisual Engineering

Teaching unit: 710 - EEL - Department of Electronic Engineering

Academic year: 2019

Degree: BACHELOR'S DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING (Syllabus 2010). (Teaching unit Compulsory)

ECTS credits: 6 Teaching languages: Catalan

Teaching staff

Coordinator: Joan Salaet

Degree competences to which the subject contributes

Specific:

1. IND_COMMON: Basic electronic knowledge

Transversal:

2. SELF-DIRECTED LEARNING - Level 1. Completing set tasks within established deadlines. Working with recommended information sources according to the guidelines set by lecturers.
3. EFFECTIVE USE OF INFORMATION RESOURCES - Level 1. Identifying information needs. Using collections, premises and services that are available for designing and executing simple searches that are suited to the topic.

Learning objectives of the subject

Study load

Total learning time: 150h	Hours large group:	30h	20.00%
	Hours medium group:	15h	10.00%
	Hours small group:	15h	10.00%
	Guided activities:	0h	0.00%
	Self study:	90h	60.00%

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Content

TOPIC 0: INTRODUCTION TO THE SUBJECT	Learning time: 1h Theory classes: 1h

Description:

Related activities:
AV0

	Learning time: 25h Theory classes: 5h Practical classes: 3h Laboratory classes: 2h Self study : 15h

Description:

	Learning time: 15h 10m Theory classes: 4h Practical classes: 2h Self study : 9h 10m

Description:

	Learning time: 27h 40m Theory classes: 5h Practical classes: 2h Laboratory classes: 4h Self study : 16h 40m

Description:

Related activities:

Specific objectives:

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	Learning time: 25h Theory classes: 5h Practical classes: 3h Laboratory classes: 2h Self study : 15h

Description:

Related activities:

Specific objectives:

	Learning time: 25h Theory classes: 5h Practical classes: 2h Laboratory classes: 3h Self study : 15h

Description:

Related activities:

Specific objectives:

	Learning time: 31h 10m Theory classes: 5h Practical classes: 3h Laboratory classes: 4h Self study : 19h 10m

Description:

Related activities:

Specific objectives:

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Bibliography

Basic:

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Malvino, Albert Paul. Principios de electrónica [on line]. 7a ed. Madrid: McGraw-Hill, 2007 [Consultation: 04/10/2018]. Available on: <http://www.ingebook.com/ib/NPcd/IB_BooksVis?cod_primaria=1000187&codigo_libro=4146>. ISBN 9788448156190.

Banzi, Massimo. Getting started with Arduino. 2nd ed. Sebastopol (CA): O'Reilly; Make Books, 2011. ISBN 9781449309879.

Complementary:

Wakerly, John F. Diseño digital: principios y prácticas. 3a ed. México: Pearson Educación, 2001. ISBN 9701704045.

Margolis, Michael. Arduino cookbook. 2nd ed. Sebastopol (CA): O' Reilly, 2011. ISBN 9781449313876.