

## 820053 - SMI - Industrial Measurement Systems

Coordinating unit: 295 - EEBE - Barcelona East School of Engineering

Teaching unit: 710 - EEL - Department of Electronic Engineering

Academic year: 2015

Degree: BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
BACHELOR'S DEGREE IN BIOMEDICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
BACHELOR'S DEGREE IN BIOMEDICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Optional)

ECTS credits: 6 Teaching languages: Catalan, Spanish

### Teaching staff

Coordinator: JOAN E. PUJOL CASANOVAS

Others: FRANCISCO JOSÉ CASELLAS BENEYTO

### Degree competences to which the subject contributes

Specific:

1. Understand the applications of electronic instrumentation.

Transversal:

2. 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.

### Learning objectives of the subject

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### Study load

Total learning time: 150h	Hours large group:	45h	30.00%
	Hours medium group:	0h	0.00%
	Hours small group:	15h	10.00%
	Guided activities:	0h	0.00%
	Self study:	90h	60.00%

### Content

(ENG) Introducció a los sistemas de medida.

Degree competences to which the content contributes:

(ENG) 1: Las unidades de medida y el Sistema Internacional de Unidades.

Degree competences to which the content contributes:

(ENG) 2: Medidas: Señales a medir. Errores en las medidas.

Degree competences to which the content contributes:

(ENG) 3: Instrumentos básicos de medida.

Degree competences to which the content contributes:

(ENG) 4: Mediciones en aplicaciones industriales.

Degree competences to which the content contributes:

(ENG) 5: Seguridad eléctrica y EMC.

Degree competences to which the content contributes:

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### Bibliography

#### Basic:

Pallás Areny, Ramón. Instruments electrònics bàsics. Barcelona: Marcombo, DL 2008. ISBN 9788426714848.

#### Complementary:

Pérez García, Miguel Ángel [et al.]. Instrumentación electrónica. 2ª ed. Madrid: Thomson, cop. 2004. ISBN 8497321669.

#### Others resources:

##### Hyperlink

Enlace FTP a los apuntes utilizados en la asignatura.