

340212 - DIEL-L7P10 - Electronic Design

Coordinating unit: 340 - EPSEVG - Vilanova i la Geltrú School of Engineering
Teaching unit: 710 - EEL - Department of Electronic Engineering
Academic year: 2018
Degree: BACHELOR'S DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
ECTS credits: 6 Teaching languages: Catalan

Teaching staff

Coordinator: Jordi Prat Tasia

Teaching methodology

Please, see Spanish or Catalan version

Learning objectives of the subject

Please, see Spanish or Catalan information

Study load

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

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Content

<p>Introduction to electronic systems for control and data acquisition</p>	<p>Learning time: 21h Theory classes: 6h Self study : 15h</p>
<p>Description: content english</p>	
<p>Signal amplification circuits</p>	<p>Learning time: 40h Theory classes: 4h Laboratory classes: 6h Self study : 30h</p>
<p>Description: content english</p>	
<p>Sensors and signal converters</p>	<p>Learning time: 53h Theory classes: 10h Laboratory classes: 8h Self study : 35h</p>
<p>Description: content english</p>	
<p>Actuators</p>	<p>Learning time: 17h Theory classes: 4h Laboratory classes: 3h Self study : 10h</p>
<p>Description: content english</p>	
<p>Introduction to data acquisition systems</p>	<p>Learning time: 19h Theory classes: 4h Self study : 15h</p>
<p>Description: content english</p>	

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Qualification system

Please, see Spanish or Catalan version

Bibliography

Basic:

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

Pérez García, Miguel Ángel. Instrumentación electrónica : 230 problemas resueltos. Madrid: Garceta, 2012. ISBN 9788415452003.