

340213 - APEL-L7P10 - Electronic Applications

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, Spanish, English

Teaching staff

Coordinator: Jordi Prat Tasia

Teaching methodology

Please, see Spanish or Catalan version.

Learning objectives of the subject

Please, see Spanish or Catalan version

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%

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Content

Introduction. Electronic projects.	Learning time: 15h Theory classes: 5h Self study : 10h
Description: content english	
Presentation and discussion of the projects	Learning time: 30h Theory classes: 10h Self study : 20h
Description: content english	
Finding basic information	Learning time: 15h Theory classes: 5h Self study : 10h
Description: content english	
Theoretical solution of design	Learning time: 30h Theory classes: 10h Self study : 20h
Description: content english	
Construction of a prototype	Learning time: 45h Theory classes: 15h Self study : 30h
Description: content english	

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Implementation of the prototype and getting results	Learning time: 45h Theory classes: 15h Self study : 30h
Description: content english	

Qualification system

Please, see Spanish or Catalan version.

Bibliography

Basic:

Storey, Neil. Electrónica : de los sistemas a los componentes. Wilmington, Delaware: Addison-Wesley Iberoamericana, 1995. ISBN 0201625725.

Malvino, Albert Paul. Principios de electrónica [on line]. Madrid: McGraw-Hill, 2007 [Consultation: 26/10/2018]. Available on: <http://www.ingebook.com/ib/NPcd/IB_BooksVis?cod_primaria=1000187&codigo_libro=4146>. ISBN 9788448156190.

Horowitz, Paul. The Art of electronics. 3th ed. New York: Cambridge University Press, 2015. ISBN 9780521809269.