

330104 - EA - Analogue Electronics

Coordinating unit: 330 - EPSEM - Manresa School of Engineering
 Teaching unit: 750 - EMIT - Department of Mining, Industrial and ICT Engineering
 Academic year: 2019
 Degree: BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2016). (Teaching unit Compulsory)
 BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Compulsory)
 ECTS credits: 6 Teaching languages: Catalan

Teaching staff

Coordinator: Delis Ramos, Francisco Manuel

Degree competences to which the subject contributes

Specific:

1. (ENG) Coneixement dels fonaments i aplicacions de la electrònica analògica.
2. (ENG) Capacitat per dissenyar sistemes electrònics analògics.

Transversal:

3. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 3. Communicating clearly and efficiently in oral and written presentations. Adapting to audiences and communication aims by using suitable strategies and means.
4. TEAMWORK - Level 3. Managing and making work groups effective. Resolving possible conflicts, valuing working with others, assessing the effectiveness of a team and presenting the final results.
5. 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

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

.	<p>Learning time: 36h</p> <p>Theory classes: 6h Practical classes: 8h Self study : 22h</p>
<p>Description: content english</p>	
.	<p>Learning time: 39h</p> <p>Theory classes: 8h Practical classes: 8h Self study : 23h</p>
<p>Description:</p> <p>.</p>	
.	<p>Learning time: 23h</p> <p>Theory classes: 4h Practical classes: 4h Self study : 15h</p>
<p>Description: content english</p>	
title english	<p>Learning time: 52h</p> <p>Theory classes: 12h Practical classes: 10h Self study : 30h</p>
<p>Description: content english</p>	

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Planning of activities

name english	Hours: 30h Theory classes: 30h
name english	Hours: 15h Self study: 15h
name english	Hours: 80h Practical classes: 30h Self study: 50h
name english	Hours: 27h Theory classes: 6h Self study: 21h

Bibliography

Basic:

Malvino, Albert P. Principios de electrónica [on line]. 7ª ed. Madrid: McGraw-Hill, 2007 [Consultation: 02/07/2019]. Available on: <https://discovery.upc.edu/iii/encore/record/C__Rb1510233?lang=cat>. ISBN 9788448156190.

Hambley, Allan R. Electrónica. 2ª ed. Madrid: Prentice Hall, 2001. ISBN 8420529990.

Complementary:

Fiore, James J. Amplificadores operacionales y circuitos integrados lineales. Madrid: Thomson, 2002. ISBN 8497320999.

Malik, Norbert R. Circuitos electrónicos: análisis, diseño y simulación. Madrid: Prentice Hall, 1996. ISBN 8489660034.

Others resources: