

295304 - IABPA - Implementation of Applications Based on Arduino Platforms

Coordinating unit: 295 - EEBE - Barcelona East School of Engineering
Teaching unit: 710 - EEL - Department of Electronic Engineering
Academic year: 2019
Degree: BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Teaching unit Optional)
ECTS credits: 6 Teaching languages: Catalan, Spanish

Teaching staff

Coordinator: Velasco Quesada, Guillermo
Others: Velasco Quesada, Guillermo
García Vilchez, Encarnación

Degree competences to which the subject contributes

Transversal:

07 AAT N3. 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: 60h	Hours large group:	30h	50.00%
	Hours small group:	30h	50.00%

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Content

-	Learning time: 7h 30m Theory classes: 2h 30m Self study : 5h
Description: -	
title english	Learning time: 6h Theory classes: 2h Self study : 4h
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Planning of activities

name english	Hours: 6h Laboratory classes: 2h Self study: 4h
name english	Hours: 6h Laboratory classes: 2h Self study: 4h
name english	Hours: 6h Laboratory classes: 2h Self study: 4h
name english	Hours: 12h Laboratory classes: 4h Self study: 8h
name english	Hours: 12h Laboratory classes: 4h Self study: 8h
name english	Hours: 6h Laboratory classes: 2h Self study: 4h

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Bibliography

Basic:

Torrente Artero, Óscar. Arduino. Curso práctico de formación. México: Alfaomega Grupo Editor, 2013. ISBN 9786077076483.

Oliva Ramos, Rubén. Monitoreo, control y adquisición de datos con Arduino y Visual Basic. Marcombo, 2017. ISBN 9788426725677.

Complementary:

Tojeiro Calaza, Germán. Taller de Arduino : un enfoque práctico para principiantes. Barcelona: Marcombo, 2014. ISBN 9788426721501.

Culkin, Jody. Aprende electrónica con Arduino : una guía ilustrada para principiantes sobre la informática física. Barcelona: Marcombo, 2019. ISBN 9788426726599.

Pallás Areny, Ramón. Sensores y acondicionadores de señal. 4a ed. Barcelona [etc.]: Marcombo, 2003. ISBN 8426713440.

Others resources:

Hyperlink

Web oficial Arduino

Resource