



Course guides

295304 - IABPA - Implementation of Applications Based on Arduino Platforms

Last modified: 19/06/2020

Unit in charge: Barcelona East School of Engineering
Teaching unit: 710 - EEL - Department of Electronic Engineering.
Degree: BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Optional subject).
Academic year: 2020 **ECTS Credits:** 6.0 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: ENCARNACIÓN GARCÍA VÍLCHEZ - GUILLERMO VELASCO QUESADA

Others: Segon quadrimestre:
ENCARNACIÓN GARCÍA VÍLCHEZ - T11, T12
FERNANDO VAZQUEZ LABRADOR - T11, T12

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.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

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STUDY LOAD

Type	Hours	Percentage
Hours large group	15,0	25.00
Hours small group	45,0	75.00

Total learning time: 60 h

CONTENTS

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Description:

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Full-or-part-time: 9h

Theory classes: 4h

Laboratory classes: 5h



title english

Description:

content english

Full-or-part-time: 17h

Theory classes: 4h

Laboratory classes: 13h

title english

Description:

content english

Full-or-part-time: 17h

Theory classes: 4h

Laboratory classes: 13h

title english

Description:

content english

Full-or-part-time: 17h

Theory classes: 3h

Laboratory classes: 14h

GRADING SYSTEM

BIBLIOGRAPHY

Basic:

- Oliva Ramos, Rubén. Monitoreo, control y adquisición de datos con Arduino y Visual Basic. Barcelona: Marcombo, 2017. ISBN 9788426725677.
- Torrente Artero, Óscar. Arduino : curso práctico de formación. Madrid: RC Libros, 2013. ISBN 9788494072505.

Complementary:

- Tojeiro Calaza, Germán. Taller de Arduino : un enfoque práctico para principiantes. Barcelona: Marcombo, 2014. ISBN 9788426721501.
- Pallás Areny, Ramón. Sensores y acondicionadores de señal. 4a ed. Barcelona [etc.]: Marcombo, 2003. ISBN 8426713440.
- Culkin, Jody. Aprende electrónica con Arduino : una guía ilustrada para principiantes sobre la informática física. Barcelona: Marcombo, 2019. ISBN 9788426726599.

RESOURCES

Hyperlink:

- Web oficial Arduino. Resource