

820340 - GEEE - Energy Management with Electronic Equipment

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)
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 ECTS credits: 6 Teaching languages: Catalan, Spanish

Teaching staff

Coordinator: Casellas Beneyto, Francisco José
 Velasco Quesada, Guillermo

Degree competences to which the subject contributes

Specific:

1. Analyse and simulate specific energy systems.
2. Determine the best way to store energy on a case-by-case basis.
3. Explain the operating principles of power conversion systems and their application to transport and distribution systems.
4. Design an energy saving system using different processes and technologies.

Transversal:

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:	30h	20.00%
	Hours medium group:	0h	0.00%
	Hours small group:	30h	20.00%
	Self study:	90h	60.00%

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Content

<p>.</p>	<p>Learning time: 30h Theory classes: 30h</p>
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<p>Description:</p> <p>.</p>	
<p>.</p>	<p>Learning time: 16h Self study : 16h</p>
<p>Description:</p> <p>.</p>	

Bibliography

Basic:

Alonso Abella, M. Sistemas fotovoltaicos: introducción al diseño y dimensionado de instalaciones de energía solar fotovoltaicas. 2ª ed. Madrid: Publicaciones Técnicas, cop. 2005. ISBN 8486913128.

Curso de experto profesional en energía fotovoltaica. Sevilla: PROGNSA, cop. 2009. ISBN 9788495693495.

Lajara Vizcaíno, José Rafael; Pelegrí Sebastiá, José. Labview : entorno grafico de programación. Barcelona: Marcombo, cop. 2007. ISBN 9788426714268.

Complementary:

Sumathi, S. LabVIEW based advanced instrumentation systems. Berlin: Springer Distribution Center GmbH, 2007. ISBN 9783540485001.