

820067 - PDE - Data Processing in Engineering

Coordinating unit: 295 - EEBE - Barcelona East School of Engineering

Teaching unit: 707 - ESAII - Department of Automatic Control

Academic year: 2015

Degree: BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN BIOMEDICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN BIOMEDICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Optional)

ECTS credits: 6 Teaching languages: Catalan

Teaching staff

Coordinator: Raúl Benítez

Others: Jesús Marín, Raúl Benítez

Degree competences to which the subject contributes

Transversal:

1. 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: 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%

Content

(ENG) Tema 1: Introducció a l'anàlisi de dades en enginyeria

Degree competences to which the content contributes:

(ENG) Tema 2: Recollida i preprocessat de dades

Degree competences to which the content contributes:

(ENG) Tema 3: Caracterització estadística de dades

Degree competences to which the content contributes:

(ENG) Tema 4: Contrast d'hipòtesi

Degree competences to which the content contributes:

(ENG) Tema 5: Anàlisi de dades

Degree competences to which the content contributes:

Bibliography

Basic:

Crawley, Michael J.. Statistics : an introduction using R. New York: John Wiley & Sons, cop. 2005. ISBN 0470022981.

Adler, J. R in a nutshell. Sebastopol [etc.]: O'Reilly, cop. 2010. ISBN 9780596801700.

Duda, R. O.; Hart, P. E.; Stork, D. G. Pattern classification. 2nd ed. New York [etc.]: John Wiley & Sons, cop. 2001. ISBN 0471056693.