Course guides
820254 - STREIA - Real-Time Systems

Last modified: 24/05/2016

Unit in charge: Barcelona East School of Engineering
Teaching unit: 707 - ESAII - Department of Automatic Control.

Degree: BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Optional subject).

Academic year: 2015 **ECTS Credits:** 6.0 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: SEBASTIAN TORNIL SIN

Others:

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
1. Apply their knowledge to industrial informatics and communications.
2. Understand the basics behind the use and programming of PCs, operating systems, databases and software with applications in engineering.

Transversal:
3. 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

CONTENTS

(ENG) 1. Introducción a los sistemas de tiempo real

(ENG) 2. Periféricos y su programación

(ENG) 3. Programación en C

(ENG) 4. Desarrollo a bajo nivel

(ENG) 5. Sistemas operativos y concurrencia

(ENG) 6. Programación sobre POSIX

(ENG) 7. Análisis de planificabilidad

GRADING SYSTEM

BIBLIOGRAPHY

Basic:
- Burns, Alan. Sistemas de tiempo real y lenguajes de programación. 3ª ed. Madrid [etc.]: Addison Wesley, cop. 2003. ISBN 8478290583.