



Universitat de Lleida

DEGREE CURRICULUM  
**SYSTEMS INTEGRATION III**

Academic year 2013-14

## Subject's general information

<b>Subject name</b>	Systems Integration III
<b>Code</b>	102132
<b>Semester</b>	2n Q Continued Evaluation
<b>Typology</b>	Optative
<b>ECTS credits</b>	6
<b>Theoretical credits</b>	0
<b>Practical credits</b>	0
<b>Department</b>	Computer Science and Industrial Engineering
<b>Important information on data processing</b>	Consult <a href="#">this link</a> for more information.
<b>Distribution of credits</b>	Josep Argelich Romà 3 Jordi Planes Cid 3

Josep Argelich Romà  
Jordi Planes Cid

## Learning objectives

See Competences section.

## Competences

**UdL2.** Knowledge of an foreign language.

**UdL3.** Knowledge of ICT.

**EPS4.** Have the learning abilities needed to start superior studies or improve the academic learning with a certain autonomous degree.

**EPS9.** Ability to work in teams, both as a unidisciplinary and multidisciplinary.

**GEEIA24.** Ability to design analog , digital and power electronic systems.

**GEEIA25.** Knowledge and capacity for modeling and simulation.

**EEIA27.** Knowledge of principles and applications of robotic systems.

## Subject contents

Action and perception systems.

Artificial vision techniques.

Visual control.

Microrobotics.

Teleoperation.

Mobile robots.

Industrial robots.

## Methodology

The subject is oriented to put in practice integrated systems through a project that will be developed during the course in several phases.

The projects will be developed distributing jobs in work teams.

## Evaluation

Written tests (40%)

Practice tests (30%)

Practices (30%)

## **Learning activities**

**Face to face activities (40%):** The percentages associated to each one of the activities are computed over 100%

Master class (42,5%)

Problems (25%)

Laboratory (25%)

Tests and evaluation (7,5%)

**Autonomous work (60%):** The percentages associated to each one of the activities are computed over 100%

Work (40%)

Cases of study (10%)

Study (40%)