



Universitat de Lleida

DEGREE CURRICULUM

SYSTEMS INTEGRATION III

Academic year 2014-15

Subject's general information

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

Learning objectives

See Competences section.

Competences

UdL2. Mastering a foreign language, especially English.

UdL3. Training Experience in the use of the new technologies and the information and communication technologies.

EPS4. To have the skills required to undertake new studies or improve the training with self-direction.

EPS9. Capacity for unidisciplinary and multidisciplinary teamwork.

GEEIA24. Capacity to design analogue, digital and power electronic systems.

GEEIA25. Knowledge and capacity for modelling and simulation of systems.

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%)