

[MSD003] Rapid prototyping systems

GENERAL INFORMATION

Studies	MASTER DEGREE IN SMART ENERGY SYSTEMS	Subject	Hardware and rapid prototyping
Semester	2	Course	1
Character	OPTIONAL	Mention / Field of specialisation	
Plan	2022	Modality	Face-to-face
Credits	3	Hours/week	0
		Language	CASTELLANO
		Total hours	44 class hours + 31 non-class hours = 75 total hours

PROFESSORS

GONZALEZ JIMENEZ, DAVID

REQUIRED PREVIOUS KNOWLEDGE

Subjects	Knowledge
MICROPROCESSORS	[!] <i>MATLAB & Simulink</i>
????	[!] <i>Labview</i>

LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
MSR101 - Implementing energy management systems through real-time rapid prototyping equipment		x		2,8
MSR171 - Ability to work in multidisciplinary teams and in a multilingual environment	x		x	0,04
MSR251 - Develops a project in the field of energy systems in a practical application context		x		0,16
Total:				3

KC: Knowledge or Content / SK: Skills / AB: Abilities

SECONDARY LEARNING RESULTS

RMS117 [!] *Implementar sistemas de gestión de energía a través de equipos de prototipado rápido en tiempo real*

LEARNING ACTIVITIES

	CH	NCH	TH
Development and writing of records, reports, presentations, audiovisual material, etc. on projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams	4 h.	4 h.	8 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	10 h.		10 h.
Practical work in workshops and/or laboratories, individually and/or in teams	30 h.	23 h.	53 h.

EVALUATION SYSTEM

	W
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	45%
Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems	40%
Prototype / Product	15%

MAKE-UP MECHANISMS

Individual written and/or oral tests or individual coding/programming tests

CH - Class hours: 44 h.

NCH - Non-class hours: 27 h.

TH - Total hours: 71 h.

RMS251 [!] *Desarrolla un proyecto del ámbito de los sistemas energéticos en un contexto de aplicación práctica*

LEARNING ACTIVITIES

	CH	NCH	TH
Development and writing of records, reports, presentations, audiovisual material, etc. on projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams		4 h.	4 h.

EVALUATION SYSTEM

W

MAKE-UP MECHANISMS

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

100%

Individual written and/or oral tests or individual coding/programming tests

CH - Class hours: 0 h.

NCH - Non-class hours: 4 h.

TH - Total hours: 4 h.

CONTENTS

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources

Moodle Platform

Subject notes

Slides of the subject

Bibliography

<https://labur.eus/ikrTa>