

Escuela Politécnica

Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2024 / 2025 - Course planning

[MSD003] Rapid prototyping systems

GENERAL INFORMATION

Studies MASTER DEGREE IN SMART ENERGY

SYSTEMS

Mention / Field of

Semester 2

MICROPROCESSORS

Character OPTIONAL

specialisation

Plan 2022

Modality Face-to-face

Course 1

Language CASTELLANO

Credits 3 Hours/week 0 Total hours 44 class hours + 31 non-class hours = 75 total

Total:

Subject Hardware and rapid prototyping

hours

Individual written and/or oral tests or individual

coding/programming tests

PROFESSORS

GONZALEZ JIMENEZ, DAVID

Subjects Knowledge

MATLAB & Simulink

Labview

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

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	СН	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	

Practical work in workshops and/or laboratories, individually and/or in teams w **EVALUATION SYSTEM MAKE-UP MECHANISMS** 45%

40%

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory

exercises, term projects, challenges and problems 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

15% Prototype / Product

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

ТН СН NCH LEARNING ACTIVITIES 4 h. 4 h.

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

EVALUATION SYSTEM W **MAKE-UP MECHANISMS**



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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	Bibliography		
Moodle Platform	https://labur.eus/ikrTa		
Subject notes			
Slides of the subject			