

Escuela Politécnica

Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2024 / 2025 - Course planning

[MSD001] Fundamentals of Labview

GENERAL INFORMATION

Studies MASTER DEGREE IN SMART ENERGY

SYSTEMS

Mention / Field of

Character OPTIONAL

specialisation

Plan 2022

Modality Face-to-face

Language CASTELLANO

Credits 3

Semester 1

Hours/week 0

Course 1

Total hours 44 class hours + 31 non-class hours = 75 total

Total:

3

Subject Hardware and rapid prototyping

hours

PROFESSORS

IBISATE ALDAY, JON

REQUIRED PREVIOUS KNOWLEDGE

Subjects Knowledge

(No specific previous subjects required) (No previous knowledge required)

LEARNING RESULTS LEARNING RESULTS KC SK AB **ECTS** MSR091 - Implement measurement systems through 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

RMS116 [!] Implementar sistemas de medida a través de de equipos de prototipado rápido

LEARNING ACTIVITIES	СН	NCH	TH
Computer simulation exercises, individually and/or in teams	36 h.	26 h.	62 h.
Proportation by the teacher in the elegaroom, in participatory elegans, of concents and	8 h		8 h

w

Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects

EVALUATION SYSTEM

MAKE-UP MECHANISMS

100% Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

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

CH - Class hours: 44 h. NCH - Non-class hours: 26 h. TH - Total hours: 70 h.

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

NCH ТН **LEARNING ACTIVITIES** 4 h. 4 h.

100%

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 MAKE-UP MECHANISMS

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

(No mechanisms)

CH - Class hours: 0 h. NCH - Non-class hours: 4 h. TH - Total hours: 4 h.



Escuela Politécnica Superior

Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2024 / 2025 - Course planning

RMS171 [!] Es capaz de trabajar en equipos multidisciplinares y en un entorno multilingüe

LEARNING ACTIVITIES

CH

NCH

TH

Development and writing of records, reports, presentations, audiovisual material, etc. on

1 h.

1 h.

w

100%

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

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

MAKE-UP MECHANISMS

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

Acceso online a bibliografía: https://labur.eus/QW4BO

CH - Class hours: 0 h. NCH - Non-class hours: 1 h. TH - Total hours: 1 h.

CONTENTS

- Introduction to programming in Labview
 - 1. Loops.
 - 2. Shift register and counters
 - 3. Arrays
 - 4. Clusters
 - 5. Graphs
 - 6. Property nodes
 - 7. Reading and writing of files
 - 8. State machines

Learning resources Bibliography

Subject notes

Moodle Platform

Video projections

Computer practical training