

Escuela Politécnica

Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2025 / 2026 - Course planning

[MSD101] FUNDAMENTALS OF LABVIEW

GENERAL INFORMATION

Studies MASTER DEGREE IN SMART ENERGY

SYSTEMS

Semester 1

Course 1 Character OPTIONAL

Plan 2025 Modality Face-to-face

Credits 3 Hours/week 0 Language EUSKARA/CASTELLANO

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

hours

Subject ?

Mention / Field of

specialisation

2030 AGENDA GOALS







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** MS091 - Implement measurement systems through rapid prototyping equipment 2,8 0,04 MS171 - Ability to work in multidisciplinary teams and in a multilingual environment MS251 - Develops a project in the field of energy systems in a practical application context 0.16

> Total: 3

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.	
Presentation by the teacher in the classroom, in participatory classes, of concents and	8 h.		8 h.	

w

100%

procedures associated with the subjects

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

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 TH **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 MAKE-UP MECHANISMS 100%

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

(No mechanisms)

Mondragon Unibertsitatea

Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2025 / 2026 - Course planning

Goi Eskola Politeknikoa Escuela Politécnica Superior

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

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

LEARNING ACTIVITIES CH NCH TH

w

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

100% R

MAKE-UP MECHANISMS

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

1 h.

1 h.

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 AND BIBLIOGRAPHY

 Learning resources
 Bibliography

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

Subject notes

Moodle Platform

Video projections

Computer practical training