

302] WORKING CONDITIONS AND OCCUPATIONAL SAFETY. ENVIRONMENTAL PROTECTION

GENERAL INFORMATION

Studies	DEGREE IN MECHATRONICS ENGINEERING	Subject	?
Semester	2	Course	2
Character	BASIC TRAINING	Mention / Field of specialisation	
Plan	2025	Modality	Face-to-face
Credits	6	Language	CASTELLANO/EUSKARA
		Total hours	90 class hours + 60 non-class hours = 150 total hours

2030 AGENDA GOALS



PROFESSORS

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REQUIRED PREVIOUS KNOWLEDGE

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

LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
GJR225 - To know the concept, institutional and legal framework of the company and the concepts of occupational risk prevention and environmental protection carried out in it	x			5,4
G-TR1 - To develop interdisciplinary projects specific to their specialty and of gradual complexity, - becoming aware of respect for human rights and fundamental rights, and analyzing and assessing the impact of the proposed solutions on the SDGs - to acquire and/or apply basic, advanced and/or avant-garde, demonstrating the ability to work in multidisciplinary teams and/or undertake further studies with a high degree of autonomy		x		0,36
G-TR2 - To express information, ideas and the arguments that support them in an orderly, clear and coherent manner, orally and in writing, based on quality information, self-made or obtained from different sources, using inclusive and non-discriminatory language		x		0,24

Total: 6

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

SECONDARY LEARNING RESULTS

2RGJ291 (2 sem) Establish the responsibilities of team members using appropriate techniques to promote their efficiency in project development (sharing resources, contributing ideas, seeking consensus, evaluating results, the process, etc.).

LEARNING ACTIVITIES		CH	NCH	TH
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams		1 h.	2 h.	3 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%	(No mechanisms)		
Comments: Continuous assessment. Retake is not foreseen.				

CH - Class hours: 1 h.
NCH - Non-class hours: 2 h.
TH - Total hours: 3 h.

2RGJ292 (2 sem) Identify and accurately explain the SDGs addressed by the project carried out.

LEARNING ACTIVITIES	CH	NCH	TH
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams	2 h.	1 h.	3 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%	(No mechanisms)
CH - Class hours: 2 h. NCH - Non-class hours: 1 h. TH - Total hours: 3 h.		

RGJ214 They know and interpret the basic labour and occupational risk prevention legislation and the legal aspects relating to machine safety.

LEARNING ACTIVITIES	CH	NCH	TH
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints	8 h.	4 h.	12 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	24 h.	16 h.	40 h.
Carrying out exercises and solving problems individually and/or in teams	4 h.	4 h.	8 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	80%	Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	
Individual written and/or oral tests or individual coding/programming tests	20%	Individual written and/or oral tests or individual coding/programming tests	
Comments: The minimum mark to pass the individual test is 5. In the case of a make-up exam, the final result will be 25% first exam mark exam + 75% mark for the second exam. Also in the work the same same criteria, minimum mark of 5		Comments: Pass mark 5. In case of <5 the mark will be calculated: 25% Exam +75% Make-up exam	
CH - Class hours: 36 h.			
NCH - Non-class hours: 24 h.			
TH - Total hours: 60 h.			

2RGJ293 (2 sem) Correctly draft and structure the project report, using appropriate language. To do so, search for and use the appropriate sources of information.

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		1 h.	2 h.	3 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%	(No mechanisms)		
		Comments: Revision and correction of the written report of the semester project		
CH - Class hours: 1 h.				
NCH - Non-class hours: 2 h.				
TH - Total hours: 3 h.				

2RGJ290 (2 sem) Propose the objectives and planning of a project that will enable you to acquire and/or reinforce your knowledge of technologies—which are sometimes at the cutting edge of knowledge—and define an effective learning strategy.

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		2 h.	1 h.	3 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%	(No mechanisms)		
Comments: Continuous assessment. Retake is not foreseen.				
CH - Class hours: 2 h. NCH - Non-class hours: 1 h. TH - Total hours: 3 h.				

CONTENTS

Environmental Protection1. Basic concepts.2. Industrial waste management: solids, water, atmospheric emissions.Occupational Safety.1. Law 31/95 on occupational risk prevention.2. Regulation of prevention services. RD 39/973. ISO45001:2018 management system.Machine Safety1. Basic concepts.2. CE marking of machines.

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography
Subject notes	http://katalogoa.mondragon.edu/janium-bin/janium_login_opac_re_in k. pl?grupo=MECATRONICA22&ejecuta=5&_ST
Topic related web quires	
Moodle Platform	
Video projections	
Presentations by external Lecturers	