

[GJA102] LABOUR CONDITIONS AND OCCUPATIONAL SAFETY .ENVIRONMENTAL PROTECTION

GENERAL INFORMATION

Studies	DEGREE IN MECHATRONICS ENGINEERING		Subject	?
Semester	2	Course	Mention / Field of specialisation	
Character	BASIC TRAINING		Language	CASTELLANO
Plan	2020	Modality	Face-to-face	
Credits	6	Hours/week	Total hours	90 class hours + 60 non-class hours = 150 total hours

PROFESSORS

AZPI-PRADO, JESUS PEDRO (SOMORROSTRO)
AZPI-JUANES, SOFIA (SOMORROSTRO)
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REQUIRED PREVIOUS KNOWLEDGE

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

SKILLS

VERIFICA SKILLS

SPECIFIC

GJCE06 - Sufficient knowledge of the concept of business and its institutional and legal framework. Prevention of labour risks and environmental protection

CROSS

GJCTR1 - To be able to do their job in cooperative, participatory environments, with awareness of social responsibility.

GJCTR2 - To be able to understand and apply knowledge to problem solving in complex work situations or specialised and professional environments calling for creative and innovative ideas, using self-developed arguments and procedures;

BASIC

G_CB5 - To have developed learning abilities required to embark on subsequent studies with a high level of autonomy.

LEARNING RESULTS

RG201 They coordinate their work with the other members of the team, contribute in their team to the development of the tasks to be carried out and the creation of a good working climate.

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.	2 h.	4 h.

EVALUATION SYSTEM

	W
Self-assessment	30%
Co-assessment	35%
Observation (technical capacity, attitude and participation)	35%

MAKE-UP MECHANISMS

(No mechanisms)
Comments: Continuous assessment. Retake is not foreseen.

CH - Class hours: 2 h.

NCH - Non-class hours: 2 h.

TH - Total hours: 4 h.

RG202 They make decisions and assess the possible consequences of the selected alternative.

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.	2 h.	4 h.

EVALUATION SYSTEM

	W
Observation (technical capacity, attitude and participation)	100%

MAKE-UP MECHANISMS

(No mechanisms)
Comments: Continuous assessment. Retake is not foreseen.

CH - Class hours: 2 h.

NCH - Non-class hours: 2 h.

TH - Total hours: 4 h.

RG204 They define the problem, the development of the solution, as well as the conclusions in an effective way, making a correct use of the language, in writing.

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.	2 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%	(No mechanisms)	
Comments: Revision and correction of the written report of the semester project			

CH - Class hours: 2 h.

NCH - Non-class hours: 2 h.

TH - Total hours: 4 h.

RG205 They define the problem, the development of the solution, as well as the conclusions in an effective way, making a correct use of the language, orally.

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	
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	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.

RGJ217 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	20%	Individual written and/or oral tests or individual	

coding/programming tests

Comments: The minimum note for a solo test will be 5. In case of recovery, the final result is 25% first test scores + 75% second test scores. The same criterion at work to get over five, but for the recovery the mark must be below five.

CH - Class hours: 36 h.
NCH - Non-class hours: 24 h.
TH - Total hours: 60 h.

coding/programming tests

Comments: Mark to pass > 5. If a retake exam is needed, the final mark will be obtained 25% first mark 75% second one

RGJ218 They assess machine risks

LEARNING ACTIVITIES

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

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

CH	NCH	TH
8 h.	7 h.	15 h.

18 h.	12 h.	30 h.
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EVALUATION SYSTEM

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

W
 100%

MAKE-UP MECHANISMS

(No mechanisms)

Comments: Continuous evaluation through the semester project. No retake exam is foreseen.

CH - Class hours: 26 h.
NCH - Non-class hours: 19 h.
TH - Total hours: 45 h.

RGJ219 They identify, classify and manage waste, water and atmospheric emissions generated by the company, proposing a minimization of their impact.

LEARNING ACTIVITIES

Personal study and flexible development of concepts and subjects using active dynamics, to foster more meaningful learning

Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams

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

CH	NCH	TH
	7 h.	7 h.

6 h.	3 h.	9 h.
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14 h.		14 h.
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EVALUATION SYSTEM

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

Comments: The minimum mark for the work carried out should be 5 in order to pass.

W
 100%

MAKE-UP MECHANISMS

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

Comments: If any part of the work has to be made up, the final mark = 25% of the first mark + 75% of the make-up mark.

CH - Class hours: 20 h.
NCH - Non-class hours: 10 h.
TH - Total hours: 30 h.

CONTENTS

Environmental protection1. Basic concepts2. Waste management: solids, wastewater...

Health and Safety legislation1. "Ley 31/95 de prevención de riesgos laborales"2 "RD 39/97 Reglamento de los servicios de prevención"3. ISO45001:2018 Occupational health and safety system.

Machine safety1. Basic concepts.2. CE marking for machinery.

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources

Subject notes
Topic related web quires
Moodle Platform
Video projections
Presentations by external Lecturers

Bibliography

http://katalogoa.mondragon.edu/janium-bin/janium_login_opac_re_Ink.pl?grupo=MECATRONICA22&ejecuta=5&_ST