

Escuela Politécnica

# Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2023 / 2024 - Course planning

A202] LABOUR CONDITIONS AND OCCUPATIONAL SAFETY .ENVIRONMENTAL PROTEC

| GENERAL INFORMATION |          |              |
|---------------------|----------|--------------|
|                     | CENIEDAL | INIEODMATION |

 Studies
 DEGREE IN MECHATRONICS ENGINEERING
 Subject
 ?

 Semester
 2
 Course
 2
 Mention / Field of specialisation

Plan 2022 Modality Face-to-face

Plan 2022 Modality Face-to-face Language CASTELLANO/EUSKARA

Credits 6 Hours/week 5 Total hours 90 class hours + 60 non-class hours = 150 total

hours

#### **PROFESSORS**

AZPI-PRADO, JESUS PEDRO (SOMORROSTRO)

OTEGUI ALTOLAGUIRRE, JON UNAX

AZPI-VELASCO PADILLA, PATRICIA (SOMORROSTRO)

#### REQUIRED PREVIOUS KNOWLEDGE

 Subjects
 Knowledge

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

LEARNING RESULTS **ECTS LEARNING RESULTS** KC SK AB GJR205 - To know the concept, institutional and legal framework of the company and the concepts of 5.4 occupational risk prevention and environmental protection carried out in it G-RTR1 - To develop interdisciplinary projects specific to their specialty and of gradual complexity, -0.32 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 0.28 G-RTR2 - 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

Total: 6

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

## **SECONDARY LEARNING RESULTS**

RGJ290 [!] Proponer los objetivos y la planificación de un proyecto que le permita adquirir y/o reforzar los conocimientos de tecnologías propias de su especialidad,- que en ocasiones llegan a la vanguardia del conocimiento- y definir una estrategía de aprendiz

| LEARNING ACTIVITIES  | СН   | NCH  | ТН   |
|--|------|------|------|
| Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in | 2 h. | 2 h. | 4 h. |
| interdisciplinary contexts, real and/or simulated, individually and/or in teams            |      |      |      |

100%

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

(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.

RGJ291 [!] Establecer las responsabilidades de los miembros del equipo utilizando técnicas adecuadas para fomentar la eficiencia del equipo para el desarrollo del proyecto en los plazos establecidos (compartir recursos, aportar ideas, habilidades comunicativas

LEARNING ACTIVITIES

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

CH NCH TH

2 h. 4 h.

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

(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.

RGJ293 [!] Redacta y estructura correctamente la memoria del proyecto, haciendo un uso correcto del lenguaje. Para ello, busca y hace uso de las fuentes de información adecuadas

100%

LEARNING ACTIVITIES

CH NCH TH

Development and writing of records, presentations, audiovisual material, etc. on 2 h, 2 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

**MAKE-UP MECHANISMS** 

EVALUATION SYSTEM W

Reports on the completion of exercises case studies 100%

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

RGJ294 [!] Realiza una presentación oral del proyecto argumentando de forma eficaz, y haciendo un uso correcto del lenguaje

LEARNING ACTIVITIES CH NCH TH

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

MAKE-UP MECHANISMS

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

(No mechanisms)

Comments: Continuous assessment. Retake is not foreseen.

2 h.

1 h.

3 h.

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

**EVALUATION SYSTEM** 

RGJ214 [!] Conoce e interpreta la legislación laboral y de prevención de riesgos laborales básica y los aspectos legales referentes a seguridad de máquinas

| LEARNING ACTIVITIES   | СН    | 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

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

80%

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20%

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> 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

Individual written and/or oral tests or individual coding/programming tests

Comments: Pass mark 5. In case of <5 the mark will be calculated: 25% Exam +75% Make-up exam

same same criteria, minimum mark of 5

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

#### RGJ215 [!] Evalúa los riesgos de las máquinas

| LEARNING ACTIVITIES   | СН    | NCH   | тн    |
|---|-------|-------|-------|
| 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 | 8 h.  | 7 h.  | 15 h. |
| Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects   | 18 h. | 12 h. | 30 h. |

100%

**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

#### **MAKE-UP MECHANISMS**

Comments: Continuous assessment during the semester. No make-up is foreseen.

(No mechanisms)

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

RGJ216 [!] Identifica, clasifica y gestiona los residuos, las aguas y las emisiones atmosféricas generados por la empresa proponiendo una minimización de su impacto

| LEARNING ACTIVITIES  | СН    | NCH  | TH    |
|--|-------|------|-------|
| Personal study and flexible development of concepts and subjects using active dynamics, to foster more meaningful learning   | -     | 7 h. | 7 h.  |
| Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams | 6 h.  | 3 h. | 9 h.  |
| Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects  | 14 h. |      | 14 h. |

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#### **EVALUATION SYSTEM** Reports on the completion of exercises, case studies, 80% computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems 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 criteria, minimum mark of 5. the grade must be below 5. In order to take the make-up exam the grade must be below 5.

**MAKE-UP MECHANISMS** 

Individual written and/or oral tests or individual coding/programming tests

Comments: THE WAY TO RECOVER CONCEPTS IS TO TAKE ANOTHER CONTROL POINT WITH A MARK OF 5 OR MORE.

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

#### **CONTENTS**

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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 l os servicios de prevención"3. ISO45001:2018 Occupational heath and safety system.

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

## LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources

Bibliography

Subject notes Topic related web quires Moodle Platform

Video projections Presentations by external Lecturers http://katalogoa.mondragon.edu/janium-bin/janium\_login\_opac\_re\_ln k. pl?grupo=MECATRONICA22&ejecuta=5&\_ST