

Escuela Politécnica

Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2023 / 2024 - Course planning

GJN201] INTRODUCTION TO INDUSTRIAL MANAGEMENT SYSTEMS: MAINTENANCE

CENIE	DAL	NEO	DM	ΔΤΙΩΝ

Studies DEGREE IN MECHATRONICS ENGINEERING

Semester 1 Course 2

Character OPTIONAL Plan 2022

Credits 3

Modality Face-to-face

Hours/week 2.5

Language CASTELLANO/EUSKARA

Total hours 45 class hours + 30 non-class hours = 75 total

hours

Subject ?

Mention / Field of specialisation

PROFESSORS

URIZAR AIZPURU, ENERITZ

REQUIRED PREVIOUS KNOWLEDGE

Subjects Knowledge

(No specific previous subjects required)

(No previous knowledge required)

LEARNING RESULTS **LEARNING RESULTS** KC SK AB **ECTS** GJR212 - To know the basic principles of maintenance management methods and systems 2.6 G-RTR1 - To develop interdisciplinary projects specific to their specialty and of gradual complexity, -0.16 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 G-RTR2 - To express information, ideas and the arguments that support them in an orderly, clear and 0.24 coherent manner, orally and in writing, based on quality information, self-made or obtained from different sources, using inclusive and non-discriminatory language

Total: 3

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

100%

LEARNING ACTIVITIES Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in

NCH ТН СН 1 h. 1 h. 2 h.

interdisciplinary contexts, real and/or simulated, 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

(No mechanisms)

Comments: With the project of the second semester

CH - Class hours: 1 h. NCH - Non-class hours: 1 h. TH - Total hours: 2 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 CH NCH TH Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in 1 h. 2 h.

100%

interdisciplinary contexts, real and/or simulated, individually and/or in teams

MAKE-UP MECHANISMS

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

(No mechanisms) Comments: With the project of the second semester

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

LEARNING ACTIVITIESCHNCHTHDevelopment and writing of records, reports, presentations, audiovisual material, etc. on2 h.1 h.3 h.

projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams

EVALUATION SYSTEM

W 100% MAKE-UP MECHANISMS
(No mechanisms)

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

Comments: Revision and correction of the written report of the

semester project

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

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

LEARNING ACTIVITIES CH NCH TH

Development and writing of records, reports, presentations, audiovisual material, etc. on 2 h 1 h 3 h

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

W 100% MAKE-UP MECHANISMS

(No mechanisms)

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

Comments: With the oral presentation of the project of the second

semester

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

RGJ232 [!] Establece fases de un proceso de mantenimiento de instalaciones de maquinaria y equipos industriales

LEARNING ACTIVITIES	СН	NCH	TH	
Personal study and flexible development of concepts and subjects using active dynamics, to foster more meaningful learning	2 h.	3 h.	5 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	3 h.	2 h.	5 h.	
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	10 h.	5 h.	15 h.	

EVALUATION SYSTEMReports on the completion of exercises, case studies, 20%

computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems Individual written and/or oral tests or individual coding/programming tests

80%

MAKE-UP MECHANISMS

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

Comments: Final mark: written retake exam (75%) + exam (25%).

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CH - Class hours: 15 h.
NCH - Non-class hours: 10 h.
TH - Total hours: 25 h.

RGJ283 [!] Elabora planes de mantenimientos de instalaciones industriales, estableciendo los procedimientos de seguimiento y control

LEARNING ACTIVITIES	CH	NCH	TH	
Personal study and flexible development of concepts and subjects using active dynamics, to foster more meaningful learning	8 h.	4 h.	12 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	3 h.	2 h.	5 h.	
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	4 h.	4 h.	8 h.	

EVALUATION SYSTEM

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 80% coding/programming tests

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

MAKE-UP MECHANISMS

Comments: Final mark: written retake exam (75%) + exam (25%)

CH - Class hours: 15 h. NCH - Non-class hours: 10 h. TH - Total hours: 25 h.

RGJ234 [!] Elabora catálogos de repuestos y programas de aprovisionamiento

LEARNING ACTIVITIES	СН	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.	3 h.	5 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	2 h.	1 h.	3 h.	
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	5 h.	2 h.	7 h.	

EVALUATION SYSTEM W

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 80% coding/programming tests

MAKE-UP MECHANISMS
Individual written and/or oral tests or individual

coding/programming tests

Comments: Final mark: written retake exam (75%) + exam (25%)

CH - Class hours: 9 h. NCH - Non-class hours: 6 h. TH - Total hours: 15 h.

CONTENTS

1. ESTABLISHMENT OF MAINTENANCE PROCESSES Methods of planning and maintenance programming

Maintenance processes

2. ELABORATION OF THE COMPLETE RANGE OF MAINTENANCE PROCEDURES

Regulation and safety

Computer-based management systems

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Moodle Platform

3. MANAGEMENT AND SUPPLY

Maintenance warehouse organization systems Spare parts codification

LEARNING RESOURCES AND BIBLIOGRAPHY

 Learning resources
 Bibliography

 Slides of the subject
 http://katalogoa.mondragon.edu/janium-bin/janium_login_opac_re_ln k.pl?grupo=MECATRONICA21&ejecuta=40&_ST

 Technical articles
 Technical articles