

## [GJN202] INTRODUCTION TO INDUSTRIAL MANAGEMENT SYSTEMS: QUALITY

### GENERAL INFORMATION

<b>Studies</b>	DEGREE IN MECHATRONICS ENGINEERING	<b>Subject</b>	?
<b>Semester</b>	2	<b>Course</b>	2
<b>Character</b>	OPTIONAL	<b>Mention / Field of specialisation</b>	???
<b>Plan</b>	2022	<b>Modality</b>	Face-to-face
<b>Credits</b>	4,5	<b>Language</b>	EUSKARA/CASTELLANO
		<b>Hours/week</b>	3.69
		<b>Total hours</b>	66.5 class hours + 46 non-class hours = <b>112.5 total hours</b>

### 2030 AGENDA GOALS



### PROFESSORS

(No professor appointed)

### REQUIRED PREVIOUS KNOWLEDGE

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

### LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
<b>GJR215</b> - To know the basic principles of quality assurance systems	x			4,02
<b>G-RTR1</b> - 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		0,32
<b>G-RTR2</b> - 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		0,16
<b>Total:</b>				<b>4,5</b>

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

### SECONDARY LEARNING RESULTS

#### 2RGJ291 (2 sem)

#### 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.	1 h.	3 h.

#### EVALUATION SYSTEM

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

W

100%

#### MAKE-UP MECHANISMS

(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.

#### 2RGJ292 (2 sem)

#### 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
1 h.	1 h.	2 h.

#### EVALUATION SYSTEM

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory

W

100%

#### MAKE-UP MECHANISMS

(No mechanisms)

exercises, term projects, challenges and problems

**CH - Class hours:** 1 h.

**NCH - Non-class hours:** 1 h.

**TH - Total hours:** 2 h.

**RGJ242** [!] *Aplica planes para el establecimiento y mantenimiento de los modelos de excelencia empresarial, interpretando la norma en la que se basa*

#### LEARNING ACTIVITIES

	CH	NCH	TH
Personal study and flexible development of concepts and subjects using active dynamics, to foster more meaningful learning	3 h.	4 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	4 h.	2 h.	6 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	11 h.	6 h.	17 h.

#### EVALUATION SYSTEM

W

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

70%

Individual written and/or oral tests or individual 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:** 18 h.

**NCH - Non-class hours:** 12 h.

**TH - Total hours:** 30 h.

#### 2RGJ293 (2 sem)

#### 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.	1 h.	2 h.

#### EVALUATION SYSTEM

W

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

100%

#### MAKE-UP MECHANISMS

(No mechanisms)

**Comments:** Revision and correction of the written report of the semester project

**CH - Class hours:** 1 h.

**NCH - Non-class hours:** 1 h.

**TH - Total hours:** 2 h.

#### 2RGJ290 (2 sem)

#### 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

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

100%

#### MAKE-UP MECHANISMS

(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.

#### 2RGJ294 (2 sem)

##### 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

CH

1 h.

NCH

1 h.

TH

2 h.

##### EVALUATION SYSTEM

W

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

100%

##### MAKE-UP MECHANISMS

(No mechanisms)

**Comments:** Continuous assessment. Retake is not foreseen.

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

#### RGJ241 [!] *Determina acciones con el objetivo de implantar y mantener los sistemas de aseguramiento de la calidad*

##### LEARNING ACTIVITIES

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

CH

2 h.

NCH

4 h.

TH

6 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

4 h.

2 h.

6 h.

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

12 h.

6 h.

18 h.

##### EVALUATION SYSTEM

W

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

20%

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%).

**CH - Class hours:** 18 h.  
**NCH - Non-class hours:** 12 h.  
**TH - Total hours:** 30 h.

#### RGJ243 [!] *Prepara registros de calidad para el control y mejora del proceso y/o producto*

##### LEARNING ACTIVITIES

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

CH

2 h.

NCH

4 h.

TH

6 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

5 h.

3 h.

8 h.

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

12,5 h.

7 h.

19,5 h.

Carrying out exercises and solving problems individually and/or in teams

4 h.

3 h.

7 h.

##### EVALUATION SYSTEM

W

Reports on the completion of exercises, case studies,

40%

##### MAKE-UP MECHANISMS

Individual written and/or oral tests or individual

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

60%

coding/programming tests

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

**CH - Class hours:** 23,5 h.

**NCH - Non-class hours:** 17 h.

**TH - Total hours:** 40,5 h.

## CONTENTS

1. QUALITY ASSURANCE Approval and certification Quality assurance systems Indicators and objectives Audits Calibration control of measuring equipment and elements  
 2. QUALITY MANAGEMENT EFQM model Self-assessment system  
 3. QUALITY RECORDS  
 Total quality tools Improvement plan

## LEARNING RESOURCES AND BIBLIOGRAPHY

### Learning resources

- [!] *Artículos de carácter técnico*
- [!] *Apuntes de la asignatura*
- [!] *Transparencias de la asignatura*
- [!] *Plataforma Moodle*

### Bibliography

[http://katalogoa.mondragon.edu/janium-bin/janium\\_login\\_opac\\_re\\_in\\_k.pl?grupo=MECATRONICA22&ejecuta=55&\\_ST](http://katalogoa.mondragon.edu/janium-bin/janium_login_opac_re_in_k.pl?grupo=MECATRONICA22&ejecuta=55&_ST)