

## [GCO102] QUALITY ENGINEERING

### GENERAL INFORMATION

<b>Studies</b>	DEGREE IN ENGINEERING IN ECO-TECHNOLOGY IN INDUSTRIAL PROCESS	<b>Subject</b>	ORGANISATION AND MANAGEMENT
<b>Semester</b>	2	<b>Course</b>	3
<b>Character</b>	COMPULSORY	<b>Mention / Field of specialisation</b>	
<b>Plan</b>	2017	<b>Modality</b>	Adapted Face-to-face
<b>Credits</b>	4,5	<b>Hours/week</b>	1.44
		<b>Total hours</b>	26 class hours + 86.5 non-class hours = <b>112.5 total hours</b>

### PROFESSORS

ISASTI LAZKANO, ARGIDER

### REQUIRED PREVIOUS KNOWLEDGE

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

### SKILLS

#### VERIFICA SKILLS

##### SPECIFIC

GCES03 - To be able to apply knowledge of manufacturing processes and systems, metrology and quality control.

##### GENERAL

G\_CB6 - To be able to respond adequately in complex situations or situations that call for innovative solutions in both the academic field and work environments within their field of study;

GCCG2 - To have knowledge of basic subjects and technologies for the learning of new methods and technologies specific to Ecotechnology Engineering in Industrial Processes, and for an enhanced capacity to adapt to new situations.

GCCG5 - To be able to analyse and assess the social and environmental impact of technical solutions.

##### CROSS

GCCTR2 - To be able to do their job in cooperative, participatory environments, with awareness of social responsibility.

##### BASIC

G\_CB2 - To be able to apply knowledge to occupational or professional tasks; have the necessary skills to pose and defend arguments, and to solve problems within their field of study

G\_CB3 - To be capable of gathering and interpreting relevant data (normally within their field of study) in order to make judgements, reflecting on relevant matters of a social, scientific or ethical nature

G\_CB4 - To be able to communicate information, ideas, problems and solutions to both expert and lay audiences

### LEARNING RESULTS

**RG301** Assumes responsibilities in the work team, organizing and planning the tasks to be developed, facing the contingencies and encouraging the participation of its members.

LEARNING ACTIVITIES	W	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			5 h.	5 h.
EVALUATION SYSTEM		MAKE-UP MECHANISMS		
Self-assessment	50%		(No mechanisms)	
Co-assessment	50%			
<b>CH</b> - Class hours: 0 h. <b>NCH</b> - Non-class hours: 5 h. <b>TH</b> - Total hours: 5 h.				

**RG302** Analyze the intervening variables in the problem and propose actions for a stable situation.

LEARNING ACTIVITIES	W	CH	NCH	TH
Development and writing of records, reports, presentations, audiovisual material, etc. on			5 h.	5 h.

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

**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)

**CH - Class hours:** 0 h.

**NCH - Non-class hours:** 5 h.

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

**RG304** Define the problem, develop the solution and present the conclusions in a efficient manner, arguing and justifying each one of them 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

4 h.

4 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)

**CH - Class hours:** 0 h.

**NCH - Non-class hours:** 4 h.

**TH - Total hours:** 4 h.

**RG305** Define the problem, develop the solution and present the conclusions in a efficient manner, arguing and justifying each one of them in spoken form.

**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

4 h.

4 h.

**EVALUATION SYSTEM**

*W*

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%

**MAKE-UP MECHANISMS**

(No mechanisms)

**CH - Class hours:** 0 h.

**NCH - Non-class hours:** 4 h.

**TH - Total hours:** 4 h.

**RGC308 [!] Identificar las diferentes estrategias para asegurar la Calidad en los procesos industriales.**

**LEARNING ACTIVITIES**

*CH*

*NCH*

*TH*

Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints

10 h.

10 h.

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

2 h.

10,5 h.

12,5 h.

EVALUATION SYSTEM	W	MAKE-UP MECHANISMS
Individual written and/or oral tests or individual coding/programming tests	100%	Individual written and/or oral tests or individual coding/programming tests
<b>CH - Class hours:</b> 12 h. <b>NCH - Non-class hours:</b> 10,5 h. <b>TH - Total hours:</b> 22,5 h.		

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		45 h.	45 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)	
<b>CH - Class hours:</b> 0 h. <b>NCH - Non-class hours:</b> 45 h. <b>TH - Total hours:</b> 45 h.			

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.	13 h.	15 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	12 h.		12 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANISMS	
Individual written and/or oral tests or individual coding/programming tests	100%	Individual written and/or oral tests or individual coding/programming tests	
<b>CH - Class hours:</b> 14 h. <b>NCH - Non-class hours:</b> 13 h. <b>TH - Total hours:</b> 27 h.			

## CONTENTS

LEARNING RESOURCES AND BIBLIOGRAPHY	
Learning resources	Bibliography
Subject notes Moodle Platform Class presentations	<a href="http://katalogoa.mondragon.edu/janum-bin/janum_login_opac_re_ink.pl?grupo=EKOTEKNOLOGIA32&amp;ejecuta=15">http://katalogoa.mondragon.edu/janum-bin/janum_login_opac_re_ink.pl?grupo=EKOTEKNOLOGIA32&amp;ejecuta=15</a>