

## [GJO102] CHALLENGES OF COMPANIES IN THE 21ST CENTURY

### GENERAL INFORMATION

<b>Studies</b>	DEGREE IN MECHATRONICS ENGINEERING		<b>Subject</b>	?
<b>Semester</b>	2	<b>Course</b>	3	<b>Mention / Field of specialisation</b>
<b>Character</b>	OPTIONAL		<b>Language</b>	EUSKARA
<b>Plan</b>	2020	<b>Modality</b>	Adapted Face-to-face	<b>Total hours</b>
<b>Credits</b>	3	<b>Hours/week</b>	2.5	45 class hours + 30 non-class hours = <b>75 total hours</b>

### PROFESSORS

AZPI-EIZAGIRRE, ANDONI (HUHEZI)

### REQUIRED PREVIOUS KNOWLEDGE

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

### SKILLS

#### VERIFICA SKILLS

##### SPECIFIC

GJCE22 - To have basic knowledge of and ability to apply environmental and sustainability technologies.

##### CROSS

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

##### BASIC

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** They assume responsibilities in the team, organizing and planning the tasks to be developed, dealing with contingencies and encouraging the participation of its members.

#### LEARNING ACTIVITIES

	CH	NCH	TH
Individual study and work, tests and evaluations and check points	3 h.	2 h.	5 h.
Practices of problem solving and real or simulated context projects	3,35 h.	2,25 h.	5,6 h.
Presentation of the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	6,75 h.	4,5 h.	11,25 h.
Individual and team exercises	3,4 h.	2,25 h.	5,65 h.
Individual and/or team computer simulation practice	6 h.	4 h.	10 h.

#### EVALUATION SYSTEM

	W
Individual written and oral tests to assess technical skills of the subject	60%
Observation of student participation and attitude in the proposed training activities	20%
Written, coding/programming and individual oral tests for the evaluation of technical skills in the field	20%

#### MAKE-UP MECHANISMS

(No mechanisms)

CH - Class hours: 22,5 h.

NCH - Non-class hours: 15 h.

TH - Total hours: 37,5 h.

**RG303** They select, apply and evaluate, in unknown contexts, the most appropriate methods, techniques, regulations, etc. of the engineer's profession.

#### LEARNING ACTIVITIES

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<b>TH - Total hours: 37,5 h.</b>			

## CONTENTS

### MODULE 1: Company and society

- Evolution of the company in the 20th century
- Current characteristics of the companies
- Current challenges of the companies:

### MODULE 2: Company and people

- Introduction What do the companies demand from us? What do they offer us?
- Centrality of people in the company

### MODULE 3: Social economy and cooperativism

- Economic self-training, labour sovereignty and social economy
- Mondragón's cooperative experience

## LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography
Slides of the subject	Azkarraga, L. Altuna,. T. Kausel, I. Iñurrategi, &#8220;La evolución sostenible. Una crisis multidimensional&#8221;; Cuadernos de Lanki n°4
Video projections	J. Ziegler, "Odio a Occidente", Ed. Península, 2010
	G. Duch, "Lo que hay que tragar", Ed. Los libros del lince, 2010
	Y. Herrero, F. Cembranos, M. Pascual, "Cambiar las gafas para mirar el mundo", 1ª edición, Ed. Libros en acción, 2011
	G. Bilbao, J. Fuertes, JM Guilbert, "Ética para ingenieros", 1ª edición, Ed. Desclée de Brower, 2006
	MA Sobrevila, "La formación del Ingeniero Profesional para el tiempo actual. Tesis de las ingenierías de base", Ed. Academia Nacional de Educación, 2000
	L. Altuna (Coord.), "La experiencia Cooperativa de Mondragon. Una síntesis general", Ed. Mondragon Unibertsitatea, 2008