[GEO201] CHALLENGES OF COMPANIES IN THE 21ST CENTURY

GENERAL INFORMATION

Studies	DEGREE IN INDUSTRIAL ELECTRONICS ENGINEERING			**Subject**	HUMANITIES AND ENVIRONMENT
Semester	2	**Course**	2	**Mention / Field of specialisation**	
Character	OPTIONAL				
Plan	2017	**Modality**	Adapted Face-to-face	**Language**	EUSKARA
Credits	3	**Hours/week**	2.5	**Total hours**	45 class hours + 30 non-class hours = **75 total hours**

Note: Considerations cocerning academic activities: Some teaching activities have been planned to be carried out face to face, others online and others both ways. If physical presence is reduced due to the COVID, some face to face activities will be carried out either online or will be replaced by others.
Note: Considerations concerning the assessment system: Assessment criteria percentages or the assessment criteria itself can be modified due to the COVID, if the online context prevails over the physical presence.

PROFESSORS

AZPI-KANPANDEGI, HARITZ (HUHEZI)

REQUIRED PREVIOUS KNOWLEDGE

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

SKILLS

VERIFICA SKILLS

GENERAL

GECT07 - To be able to analyse and assess the social and environmental impact of technical solutions.

GECT10 - To be able to do their job in multilingual, multidisciplinary environments.

ENAEE LEARNING RESULTS

ENA103 - Knowledge and comprehension: Awareness of the multidisciplinary context of engineering.

ENA105 - Analysis in engineering: The ability to identify, formulate and solve engineering problems in their speciality; choose and apply adequately established analytical, calculation and experimental methods; and acknowledge the importance of social, health and safety, environmental, economic, and industrial restrictions.

ENA115 - Practical application of engineering: Knowledge of the social, health and safety, environmental, economic and industrial implications of engineering practice.

ENA116 - Practical application of engineering: General ideas on economic, organisational and management issues (such as project, risk and change management) in the industrial and business context.

ENA117 - Preparation of judgements: Ability to collect and interpret data and handle complex concepts within their speciality, in order to make judgements that involve reflection on ethical and social issues.

LEARNING RESULTS

RG201 They coordinate the work with the rest of the group members, contributing to develop the task to be done and creating a good work atmosphere.

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.

RG203 **They Apply methods, techniques, regulations, etc. typical of the engineering profession in familiar contexts.**

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.

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

Slides of the subject
Video projections

Bibliography

Azkarraga, J.; Altuna, L.; Kausel, T.; Iñurrategi, I. La evolución sostenible. Una crisis multidimensional. Cuadernos de Lanki nº4

Ziegler, J. "Odio a Occidente", Ed. Península, 2010

Duch, G. "Lo que hay que tragar", Ed. Los libros del lince, 2010

Herrero, Y.; Cembranos, F.; Pascual, M. "Cambiar las gafas para mirar el mundo", 1ª edición, Ed. Libros en acción, 2011

Bilbao, G.; Fuertes, J.; Guilbert, JM. "Ética para ingenieros", 1ª edición, Ed. Desclée de Brower, 2006

Sobrevila, MA. "La formación del Ingeniero Profesional para el tiempo actual. Tesis de las ingenierías de base", Ed. Academia Nacional de Educación, 2000

Altuna, L. (Coord.), "La experiencia Cooperativa de Mondragon. Una síntesis general", Ed. Mondragon Unibertsitatea, 2008