[GCO101] INDUSTRIAL ORGANISATION

GENERAL INFORMATION

Studies	DEGREE IN ENGINEERING IN ECO-TECHNOLOGY IN INDUSTRIAL PROCESS			**Subject**	?
Semester	1	**Course**	3	**Mention / Field of specialisation**	
Character	COMPULSORY				
Plan	2017	**Modality**	Adapted Face-to-face	**Language**	ENGLISH
Credits	4,5	**Hours/week**	2.11	**Total hours**	38 class hours + 74.5 non-class hours = **112.5 total hours**

PROFESSORS

ISASTI LAZKANO, ARGIDER

REQUIRED PREVIOUS KNOWLEDGE

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

SKILLS

VERIFICA SKILLS

SPECIFIC

GCIN11 - Applied knowledge of company organisation.

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;

GCCG1 - To have the knowledge, understanding and ability to apply the laws pertaining to Ecotechnology Engineering in Industrial Processes; to be able to comply with the specifications, standards and regulations in force.

GCCG4 - To know how to perform measurements, calculations, valuations, studies, reports, task planning, and other activities pertaining to the field of Ecotechnology Engineering in Industrial Processes

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

GCCG6 - To understand and apply the fundamentals of economics and human resource management, organisation and project planning in Ecotechnologies

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

G_CB5 - To have developed learning abilities required to embark on subsequent studies with a high level of autonomy.

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	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	W
Self-assessment	50%
Co-assessment	50%

Comments: Assessment of the acquired transversal skills: Followed methodology to solve the project: team work, decision making methods, conflict management... Project management: definition of objectives, planning,... Written and oral communication

MAKE-UP MECHANISMS

(No mechanisms)

Comments: Continuous assessment. The project is managed through the tutoring meetings and the meetings held with the experts, errors are corrected and the precise guidelines are given to overcome the project.

CH - Class hours: 0 h.
NCH - Non-class hours: 5 h.
TH - Total hours: 5 h.

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

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		5 h.	5 h.

EVALUATION SYSTEM	W
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	100%

Comments: Assessment of the acquired transversal skills: Followed methodology to solve the project: team work, decision making methods, conflict management... Project management: definition of objectives, planning,... Written and oral communication

MAKE-UP MECHANISMS

(No mechanisms)

Comments: Continuous assessment. The project is managed through the tutoring meetings and the meetings held with the experts, errors are corrected and the precise guidelines are given to overcome the project.

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%

Comments: Assessment of the acquired transversal skills: Followed methodology to solve the project: team work, decision making methods, conflict management... Project management: definition of objectives, planning,... Written and oral communication

MAKE-UP MECHANISMS

(No mechanisms)

Comments: Continuous assessment. The project is managed through the tutoring meetings and the meetings held with the experts, errors are corrected and the precise guidelines are given to overcome the project.

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%

Comments: Assessment of the acquired transversal skills: Followed methodology to solve the project: team work, decision

MAKE-UP MECHANISMS

(No mechanisms)

Comments: Continuous assessment. The project is managed through the tutoring meetings and the meetings held with the experts, errors are corrected and the precise guidelines are given to overcome the project.

making methods, conflict management... Project management: definition of objectives, planning,... Written and oral communication

CH - Class hours: 0 h.
NCH - Non-class hours: 4 h.
TH - Total hours: 4 h.

RGC325 Identify and apply the different techniques and tools for the overall improvement of the productive flow of an industrial plant, which will reduce the productive waste

LEARNING ACTIVITIES	CH	NCH	TH
Individual study and work, tests and evaluations and check points	2 h.	8 h.	10 h.
Classroom presentations of relevant concepts and procedures in participatory environments	10,5 h.		10,5 h.
Individual and team solving of exercises, problems, and practices	12,5 h.	8 h.	20,5 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		17,5 h.	17,5 h.

EVALUATION SYSTEM	W
Individual written and oral tests to assess technical skills of the subject	30%
Reports of solving exercises, case studies, computer practices, simulation practices and laboratory practices	40%
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	30%

Comments: All exercises must be delivered on time. Minimum of 4 is required to calculate the average and get the final mark. If this minumum is not reached, there is a second chance to deliver it, but maximun of 5 will be the final mark.

MAKE-UP MECHANISMS
Individual written and oral tests to assess technical skills of the subject

CH - Class hours: 25 h.
NCH - Non-class hours: 33,5 h.
TH - Total hours: 58,5 h.

RGC326 Calculate productive efficiency and apply techniques and tools to increase it

LEARNING ACTIVITIES	CH	NCH	TH
Individual study and work, tests and evaluations and check points	2 h.	8,5 h.	10,5 h.
Individual and team exercises	3,5 h.	4 h.	7,5 h.
Classroom presentations of relevant concepts and procedures in participatory environments	7,5 h.		7,5 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		10,5 h.	10,5 h.

Comments: All exercises must be delivered on time. Minimum of 4 is required to calculate the average and get the final mark. If this minumum is not reached, there is a second chance to deliver it, but maximun of 5 will be the final mark.

EVALUATION SYSTEM	W
Individual written and oral tests to assess technical skills of the subject	30%
Reports of solving exercises, case studies, computer practices, simulation practices and laboratory practices	40%
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	30%

Comments: All exercises must be delivered on time. Minimum of 4 is required to calculate the average and get the final mark.

MAKE-UP MECHANISMS
Individual written and oral tests to assess technical skills of the subject
Reports of solving exercises, case studies, computer practices, simulation practices and laboratory practices

CH - Class hours: 13 h.
NCH - Non-class hours: 23 h.
TH - Total hours: 36 h.

CONTENTS

1.Characteristics of Lean Manufacturing

1. Origin of Lean Manufacturing.

2.Lead Time and inventory.

3.Added value and inefficiency

2.Plant distribution and Cell design

1.Types of plant distribution

2.Methodology for the design of plant distribution

3.Cell design

3.Efficiency

1. Types of waste and efficiency.

4.Process stability

1.5S.

2.TPM.

3.Standard operations.

5.Rapid changeover

1.SMED.

2.REDIX case.

6.JIT methods

1.FIFO lane.

2.KANBAN Supermarkets.

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography
Subject notes Moodle Platform Video projections Class presentations	http://katalogoa.mondragon.edu/janium-bin/janium_login_opac_re_lnk.pl?grupo=EKOTEKNOLOGIA31&ejecuta=25