

[GOD206] PROCESS IMPROVEMENT

GENERAL INFORMATION

Studies	DEGREE IN INDUSTRIAL ORGANIZATION ENGINEERING		Subject	Product Engineering	
Semester	1	Course	4	Mention / Field of specialisation	???
Character	OPTIONAL		Modality	Adapted Face-to-face	
Plan	2017	Hours/week	4.17	Language	EUSKARA
Credits	6	Total hours	75 class hours + 75 non-class hours = 150 total hours		

PROFESSORS

ISASTI LAZKANO, ARGIDER
LLAGUNO VILLAFAFILA, ARRATE

REQUIRED PREVIOUS KNOWLEDGE

Subjects	Knowledge
<i>(No specific previous subjects required)</i>	<i>(No previous knowledge required)</i>

SKILLS

VERIFICA SKILLS

SPECIFIC

GOC401 - To analyse organisational problems with a global vision, drawing their boundaries on the basis of strategic, logistic or economic principles and technology requirements, and considering different alternative solutions

GOC407 - To show relational, organisational and technical ability in the autonomous development of End of Degree Project in a work team environment. To justify conclusions and scope of the obtained results.

GENERAL

GOC02 - To define, plan and control projects with regard to main limitations (time, deadlines, costs, resources)

BASIC

G_CB1 - To have proven to understand and have knowledge in a field of study based on general secondary education at a level found in advanced textbooks and including concepts at the forefront of their field of study.

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.

ENAE LEARNING RESULTS

	ECTS
ENAE01 - Knowledge and understanding: Knowledge and understanding of the underlying scientific and mathematical principles in their branch of engineering.	1,8
ENAE05 - Analysis in engineering: Ability to apply their knowledge and understanding in identifying, formulating and solving engineering problems using established methods.	0,3
ENAE06 - Analysis in engineering: Ability to apply their knowledge and understanding in analysing product, process and method engineering.	0,3
ENAE08 - Engineering projects: Ability to apply their knowledge in the development and completion of projects which meet specific requirements.	0,5
ENAE11 - Research & innovation: Ability to design and carry out experiments, to interpret data and draw conclusions.	0,5
ENAE16 - Practical application of engineering: To be aware of the implications of the practical application of engineering.	0,6
ENAE18 - Transversal competences: To use different methods to communicate effectively with the engineering community and society in general.	0,5
ENAE19 - Transversal competences: Demonstrate that they are aware of the responsibility implied in the practical application of engineering, the social and environmental impact, and show commitment with professional ethics, responsibility and regulations of the practical application of engineering.	0,5
ENAE20 - Transversal competences: Demonstrate that they are aware of entrepreneurial practices and project management, in addition to risk control and management and understand their limitations.	0,5
ENAE21 - Transversal competences: To recognise the need for and be able to voluntarily develop continuous learning.	0,5

Total: 6

LEARNING RESULTS

RG0401 [!] *Conoce y usa las diferentes técnicas y herramientas para la resolución de problemas de la organización.*

LEARNING ACTIVITIES		<i>CH</i>	<i>NCH</i>	<i>TH</i>
Presentation of the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects		75 h.	75 h.	150 h.
EVALUATION SYSTEM	<i>W</i>	MAKE-UP MECHANISMS		
Individual written and oral tests to assess technical skills of the subject	50%	<i>(No mechanisms)</i>		
Reports of solving exercises, case studies, computer practices, simulation practices and laboratory practices	50%			
CH - Class hours: 75 h.				
NCH - Non-class hours: 75 h.				
TH - Total hours: 150 h.				

CONTENTS

Lean Model for Process Improvement (Kaizen)

- Introduction
- Tools
- Fundamental principles

Systematic problem solving (8D)

- Methodology
- Tools

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography
Moodle Platform Subject notes Computer practical training	Estadística Práctica con minitab Pere Grima, Lluís Marco, Xabier Tort-Martorell Escuela superior de ingeniería Industrial de Barcelona Universitat Politècnica de Catalunya Prentice-Hall