

[GOF301] LOGISTICS I

GENERAL INFORMATION

Studies	DEGREE IN INDUSTRIAL ORGANIZATION ENGINEERING	Subject	LOGISTICS
Semester	2	Course	2
Character	COMPULSORY	Mention / Field of specialisation	
Plan	2022	Modality	Face-to-face
Credits	6	Hours/week	5.72
		Language	CASTELLANO/EUSKARA
		Total hours	103 class hours + 47 non-class hours = 150 total hours

PROFESSORS

ORUE IRASUEGUI, AITOR	
SAN MIGUEL UGARTE, AMAIA	

REQUIRED PREVIOUS KNOWLEDGE

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

LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
GOR201 - To design efficient processes for the supply, storage and distribution of products, taking into account the key parameters of the supply chain		x		5,4
G-RTR1 - To develop interdisciplinary projects specific to their specialty and of gradual complexity, - becoming aware of respect for human rights and fundamental rights, and analyzing and assessing the impact of the proposed solutions on the SDGs - to acquire and/or apply basic, advanced and /or avant-garde, demonstrating the ability to work in multidisciplinary teams and/or undertake further studies with a high degree of autonomy		x		0,32
G-RTR2 - To express information, ideas and the arguments that support them in an orderly, clear and coherent manner, orally and in writing, based on quality information, self-made or obtained from different sources, using inclusive and non-discriminatory language		x		0,28
Total:				6

KC: Knowledge or Content / SK: Skills / AB: Abilities

ENAE LEARNING RESULTS

ENAE LEARNING RESULTS	ECTS
ENAE02 - Knowledge and understanding: A systematic understanding of the key aspects and concepts of their branch of engineering.	2,68
ENAE04 - Knowledge and understanding: To be aware of the multidisciplinary context of engineering.	0,28
ENAE06 - Analysis in engineering: Ability to apply their knowledge and understanding in analysing product, process and method engineering.	0,8
ENAE07 - Analysis in engineering: Ability to choose and apply relevant modelling and analytical methods.	0,4
ENAE08 - Engineering projects: Ability to apply their knowledge in the development and completion of projects which meet specific requirements.	0,37
ENAE15 - Practical application of engineering: Understanding of applicable methods and techniques and their limitations.	0,37
ENAE17 - Transversal competences: To work effectively, both individually and in a team.	0,37
ENAE18 - Transversal competences: To use different methods to communicate effectively with the engineering community and society in general.	0,37
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.	0,37
Total:	6

SECONDARY LEARNING RESULTS

RG0290 [!] *Proponer los objetivos y la planificación de un proyecto que le permita adquirir y/o reforzar los conocimientos de tecnologías propias de su especialidad,- que en ocasiones llegan a la vanguardia del conocimiento- y definir una estrategia de aprendiz*

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

Reports on the completion of exercises, case studies, w 100%

MAKE-UP MECHANISMS

(No mechanisms)

computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

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

RG0291 [!] *Establecer las responsabilidades de los miembros del equipo utilizando técnicas adecuadas para fomentar la eficiencia del equipo para el desarrollo del proyecto en los plazos establecidos (compartir recursos, aportar ideas, habilidades comunicativas)*

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	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)

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

RG0293 [!] *Redacta y estructura correctamente la memoria del proyecto, haciendo un uso correcto, inclusivo y no discriminatorio del lenguaje. Para ello, busca y hace uso de las fuentes de información adecuadas.*

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	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)

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

RG0294 [!] *Realiza una presentación oral del proyecto con argumentos elaborados por sí mismos y haciendo un uso correcto, inclusivo y no discriminatorio del lenguaje.*

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	3 h.		3 h.

EVALUATION SYSTEM	W	MAKE-UP MECHANISMS
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%	(No mechanisms)

CH - Class hours: 3 h.
NCH - Non-class hours: 0 h.
TH - Total hours: 3 h.

RG0201 [!] *Elige políticas de gestión de materiales y stocks atendiendo a diferentes estrategias productivas*

LEARNING ACTIVITIES	CH	NCH	TH
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints	5 h.	5 h.	10 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	20 h.		20 h.
Carrying out exercises and solving problems individually and/or in teams	15 h.	5 h.	20 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	25%	Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems
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	25%	Individual written and/or oral tests or individual coding/programming tests
Individual written and/or oral tests or individual coding/programming tests	50%	

CH - Class hours: 40 h.
NCH - Non-class hours: 10 h.
TH - Total hours: 50 h.

RG0202 [!] *Diseña de manera gráfica almacenes y redes de transporte que responden de forma eficiente y sostenible a la operativa de trabajo*

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	20 h.	15 h.	35 h.
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints	10 h.	10 h.	20 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	30 h.		30 h.

EVALUATION SYSTEM	W	MAKE-UP MECHANISMS
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	50%	Individual written and/or oral tests or individual coding/programming tests
Individual written and/or oral tests or individual coding/programming tests	50%	

CH - Class hours: 60 h.
NCH - Non-class hours: 25 h.
TH - Total hours: 85 h.

CONTENTS

1. Introduction
- 2- Bill of materials
- 3- To produce or to buy?
- 4- Management of materials and stocks
- 5- Distribution management
- 6- Storage systems
- 7- Maintenance equipment
- 8- Product preparation and packaging systems
- 9- Purchasing management

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources

Technical articles
Subject notes
Moodle Platform
Class presentations
Programmes
Video projections
Lab practical training
Computer practical training

Bibliography

WOMACK, J.P.; JONES, A.T. y ROSS, D. La máquina que cambió el mundo. McGraw‑Hill Argitaletxea, 1.992.
SUZAKI, Kiyoshi. Competitividad en fabricación en la década de los 90. Tecnologías de Gerencia y Producción S.A. 1.991.
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Administración de producción y operaciones. Chase, Aquilano, Jacobs.2000. Mc Graw Hill
Production and Operations Management. Norman Gaither. 1996.Duxbury Press
CUATRECASAS Lluís. Diseño de procesos de producción flexible. Productivity Press, Inc. 1996. ISBN: 84-87022-25-1
SEKINE, Kenichi. Diseño de células de fabricación. Productivity Press, Inc. 1993. ISBN: 84-87022-03-0
HYER, Nancy; WEMMERLÖV, Urban. Reorganizing the factory. Productivity Press, Inc. 2002. ISBN: 1-56327-228-8
PTAK, C. & SMITH, C. 2011. Orlicky's Material Requirements Planning 3/E, McGraw Hill Professional.
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