

[GOF302] LOGISTICS II

GENERAL INFORMATION

Studies	DEGREE IN INDUSTRIAL ORGANIZATION ENGINEERING	Subject	?
Semester	1	Course	3
Character	COMPULSORY	Mention / Field of specialisation	
Plan	2022	Modality	Face-to-face
Credits	6	Hours/week	5
		Language	CASTELLANO/EUSKARA
		Total hours	90 class hours + 60 non-class hours = 150 total hours

PROFESSORS

ORUE IRASUEGUI, AITOR	
ATORRASAGASTI ALDABALDETRECU, ESTELA	

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
GOR306 - To design a general solution for production and purchasing planning according to the characteristics of the product, process and market		x		5,08
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		0,44
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		0,48
Total:				6

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

ENAE LEARNING RESULTS

	ECTS
ENAE03 - Knowledge and understanding: Sufficient knowledge of their branch of engineering, including some knowledge at the forefront of their field.	1,5
ENAE07 - Analysis in engineering: Ability to choose and apply relevant modelling and analytical methods.	0,8
ENAE09 - Engineering projects: Understanding of the different methods and ability to use them.	0,45
ENAE11 - Research & innovation: Ability to design and carry out experiments, to interpret data and draw conclusions.	0,4
ENAE12 - Research & innovation: Technical and lab competences.	0,3
ENAE15 - Practical application of engineering: Understanding of applicable methods and techniques and their limitations.	1,2
ENAE17 - Transversal competences: To work effectively, both individually and in a team.	0,45
ENAE18 - Transversal competences: To use different methods to communicate effectively with the engineering community and society in general.	0,45
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.	0,44
Total:	6

SECONDARY LEARNING RESULTS

RG0390 [!] *Definir y gestionar los objetivos y la planificación de un proyecto que le permita adquirir y/o reforzar los conocimientos de tecnologías específicas de su especialidad,- que en ocasiones llegan a la vanguardia del conocimiento- y definir una estrate*

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	1 h.	2 h.	3 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	1 h.		1 h.

EVALUATION SYSTEM

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory

W

75%

MAKE-UP MECHANISMS

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term

<p>exercises, term projects, challenges and problems</p> <p>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</p>	25%	<p>projects, challenges and problems</p>
<p>CH - Class hours: 2 h. NCH - Non-class hours: 2 h. TH - Total hours: 4 h.</p>		

RG0391 [!] *Coordinar el equipo de trabajo, estimulando la cohesión y buen clima para lograr la integración de todas las personas y su contribución para alcanzar un rendimiento apropiado, tanto a nivel individual como grupal, para el desarrollo del proyecto en*

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	1 h.	2 h.	3 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	1 h.		1 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	75%	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%	

CH - Class hours: 2 h.
NCH - Non-class hours: 2 h.
TH - Total hours: 4 h.

RG0392 [!] *Identificar y argumentar de forma precisa los ODS en los que incide el proyecto realizado, aportando posibles acciones para la mejora.*

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	2 h.	1 h.	3 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	75%	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%	

CH - Class hours: 2 h.
NCH - Non-class hours: 1 h.
TH - Total hours: 3 h.

RG0393 [!] *Elabora la memoria del proyecto, aportando argumentos elaborados y haciendo un uso correcto, inclusivo y no*

discriminatorio del lenguaje.

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	2 h.	1 h.	3 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	2 h.	1 h.	3 h.

EVALUATION SYSTEM

	W
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	75%
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%

MAKE-UP MECHANISMS

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

CH - Class hours: 4 h.
NCH - Non-class hours: 2 h.
TH - Total hours: 6 h.

RG0394 [!] *Realiza una presentación oral del proyecto, justificando las soluciones propuestas con argumentos elaborados y precisos, y haciendo un uso correcto, inclusivo y no discriminatorio del lenguaje.*

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	2 h.	1 h.	3 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	2 h.	1 h.	3 h.

EVALUATION SYSTEM

	W
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	75%
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%

MAKE-UP MECHANISMS

Individual written and/or oral tests or individual coding/programming tests

CH - Class hours: 4 h.
NCH - Non-class hours: 2 h.
TH - Total hours: 6 h.

RG0312 [!] *SELECCIONA la política de compras y aprovisionamiento adecuada*

LEARNING ACTIVITIES

	CH	NCH	TH
Personal study and flexible development of concepts and subjects using active dynamics, to foster more meaningful learning	10 h.	10 h.	20 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	8 h.	2 h.	10 h.

EVALUATION SYSTEM

	W
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	15%
Presentation and defence of exercises, case studies, computer practical work, simulation practical work,	15%

MAKE-UP MECHANISMS

Individual written and/or oral tests or individual coding/programming tests

laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems
Individual written and/or oral tests or individual coding/programming tests 70%

CH - Class hours: 18 h.
NCH - Non-class hours: 12 h.
TH - Total hours: 30 h.

RG0313 [!] *DISTINGUE entre las diferentes herramientas y metodología de planificación de la producción*

LEARNING ACTIVITIES

	<i>CH</i>	<i>NCH</i>	<i>TH</i>
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	2 h.	3 h.	5 h.
Personal study and flexible development of concepts and subjects using active dynamics, to foster more meaningful learning	38 h.	24 h.	62 h.

EVALUATION SYSTEM

W

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	5%
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	5%
Individual written and/or oral tests or individual coding/programming tests	90%

MAKE-UP MECHANISMS

Individual written and/or oral tests or individual coding/programming tests

CH - Class hours: 40 h.
NCH - Non-class hours: 27 h.
TH - Total hours: 67 h.

RG0314 [!] *PROPONE metodologías y herramientas adecuadas para planificar la producción teniendo en cuenta las características del producto proceso y mercado*

LEARNING ACTIVITIES

	<i>CH</i>	<i>NCH</i>	<i>TH</i>
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams	18 h.	12 h.	30 h.

EVALUATION SYSTEM

W

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	50%
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%

MAKE-UP MECHANISMS

Individual written and/or oral tests or individual coding/programming tests

CH - Class hours: 18 h.
NCH - Non-class hours: 12 h.
TH - Total hours: 30 h.

CONTENTS

- Introduction to Operations
- Production Master Plan

• Material Management (MRP)

• JIT (Kanban)

• Theory of Constraints

• Demand Driven MRP

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography
Subject notes	WOMACK, J.P.; JONES, A.T. y ROSS, D. La máquina que cambió el mundo. McGraw-Hill Argitaletxea, 1.992.
Topic related web quires	SUZAKI, Kiyoshi. Competitividad en fabricación en la década de los 90. Tecnologías de Gerencia y Producción S.A. 1.991.
Moodle Platform	HARMON, R.L. eta PETERSON, LD. Reinventar la fábrica. Ciencias de la Dirección argitaletxea, 1.990
Class presentations	Administración de producción y operaciones. Chase, Aquilano, Jacobs.2000. Mc Graw Hill.
Video projections	Production and Operations Management. Norman Gaither. 1996.Duxbury Press
Slides of the subject	SEKINE, Kenichi. Diseño de células de fabricación. Productivity Press, Inc. 1993. ISBN: 84-87022-03-0
Student book	CUATRECASAS Lluís. Diseño de procesos de producción flexible. Productivity Press, Inc. 1996. ISBN: 84-87022-25-1
	HYER, Nancy; WEMMERLÖV, Urban. Reorganizing the factory. Productivity Press, Inc. 2002. ISBN: 1-56327-228-8
	NAKAJIMA
	MUTHER R. Distribución en planta. Hispano Europea S.A
	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
	SUZAKI, Kiyoshi. Competitividad en fabricación en la década de los 90. Tecnologías de Gerencia y Producción S.A. 1.991.
	HIRANO H. Manual para la implantación del JIT. Productivity Press
	APICS DICCIONARIO. Diccionario 7º edición. APICS. ISBN: 1-55822-114-X
	GUIAS Y HERRAMIENTAS DE APOYO A LA INNOVACIÓN. Guías de la gestión de la innovación. Producción y logística. ESADE, Business School. ISBN: 84-393-6186-6
	Jay Heizer & Barry Render
	Ed: Practice Hall ISBN:0-13-018604-X
	Japan Management Association
	Ed. Rev ISBN 84-87022-39
	Productivity Press Development Team
	ISBN 1-56327-274-1
	Raymond S.Louis.
	Ed. TGP Hoshin ISBN 84-870022-44-8
	Castro M.A., Barba E., Da Cunha D., Ibarra I., Iglesias J.L., Rogríguez M.
	Caixanova negozio eskola ISBN 84-8408-330-6
	ISBN 84-7978-095-9 Ediciones Díaz de Santos
	ISBN 968-6635-32-7 Ediciones Castillo
	ISBN 84-7978-200-5 Ediciones Díaz de Santos
	ISBN 84-7978-487-3 Ediciones Díaz de Santos
	ISBN 84-7978-129-9 Ediciones Díaz de Santos
	ISBN 84-7978-484-9 Ediciones Díaz de Santos