

[GOF202] LOGISTICS II

GENERAL INFORMATION

Studies	DEGREE IN INDUSTRIAL ORGANIZATION ENGINEERING		Subject	Logistics
Semester	1	Course	3	Mention / Field of specialisation
Character	COMPULSORY		Language	ENGLISH
Plan	2017	Modality	Adapted Face-to-face	Total hours
Credits	6	Hours/week	5.56	100 class hours + 50 non-class hours = 150 total hours

PROFESSORS

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ATORRASAGASTI ALDABALDETRECU, ESTELA

REQUIRED PREVIOUS KNOWLEDGE

Subjects	Knowledge
LOGISTICS I	<i>(No previous knowledge required)</i>

SKILLS

VERIFICA SKILLS

SPECIFIC

- GOC305** - To simulate an activity (production plant, supply chain or service) in a correct manner and make timely organisational decisions
- GOC307** - To identify the key parameters in the supply chain and design efficient processes for the supply, storage and distribution of products within a national and international framework.
- GOC309** - To solve problems and analyse the implications of the solution proposed by defining actions which hinder the reappearance of problems (stable solution) and taking part in various work teams.
- GOC310** - To draft different types of documents, arguing and justifying the conclusions and solutions presented therein and to communicate, present and share the information appropriately.

GENERAL

- GOCT06** - To manage the key parameters in the value chain for the effective management of industrial activities and processes or services

BASIC

- G_CB4** - To be able to communicate information, ideas, problems and solutions to both expert and lay audiences

ENAEE LEARNING RESULTS

ENAEE 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

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, writing and presentation of memorandums, reports, audiovisual material, etc.	6 h.		6 h.
Relating to projects/POPBLs carried out individually or in teams			

EVALUATION SYSTEM

Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence

MAKE-UP MECHANISMS

(No mechanisms)

CH - Class hours: 6 h.
NCH - Non-class hours: 0 h.
TH - Total hours: 6 h.

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

LEARNING ACTIVITIES		<i>CH</i>	<i>NCH</i>	<i>TH</i>
Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams		5 h.		5 h.
EVALUATION SYSTEM		<i>W</i>	MAKE-UP MECHANISMS	
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence		100%	<i>(No mechanisms)</i>	

CH - Class hours: 5 h.
NCH - Non-class hours: 0 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		<i>CH</i>	<i>NCH</i>	<i>TH</i>
Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams		3 h.		3 h.
Individual study and work, tests and evaluations and check points		3 h.		3 h.
EVALUATION SYSTEM		<i>W</i>	MAKE-UP MECHANISMS	
Individual written and oral tests to assess technical skills of the subject		50%	Individual written and oral tests to assess technical skills of the subject	
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence		50%		

CH - Class hours: 6 h.
NCH - Non-class hours: 0 h.
TH - Total hours: 6 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		<i>CH</i>	<i>NCH</i>	<i>TH</i>
Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams		6 h.		6 h.
EVALUATION SYSTEM		<i>W</i>	MAKE-UP MECHANISMS	
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence		100%	Individual written and oral tests to assess technical skills of the subject	

CH - Class hours: 6 h.
NCH - Non-class hours: 0 h.
TH - Total hours: 6 h.

RG0313 Correctly interprets the results obtained after the simulation and makes decisions based on economic and financial indicators.

LEARNING ACTIVITIES		<i>CH</i>	<i>NCH</i>	<i>TH</i>
Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams		35 h.	17 h.	52 h.
EVALUATION SYSTEM	<i>W</i>	MAKE-UP MECHANISMS		
Individual written and oral tests to assess technical skills of the subject	60%	Individual written and oral tests to assess technical skills of the subject		
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	40%			

CH - Class hours: 35 h.
NCH - Non-class hours: 17 h.
TH - Total hours: 52 h.

RG0317 Identifies the various existing procurement and supply policies and demonstrates their use, in a national or international environment.

LEARNING ACTIVITIES		<i>CH</i>	<i>NCH</i>	<i>TH</i>
Individual study and work, tests and evaluations and check points		10 h.	5 h.	15 h.
EVALUATION SYSTEM	<i>W</i>	MAKE-UP MECHANISMS		
Individual written and oral tests to assess technical skills of the subject	100%	Individual written and oral tests to assess technical skills of the subject		

CH - Class hours: 10 h.
NCH - Non-class hours: 5 h.
TH - Total hours: 15 h.

RG0318 Represents warehouses and transport networks that respond efficiently and sustainably to operational work in a national or international environment.

LEARNING ACTIVITIES		<i>CH</i>	<i>NCH</i>	<i>TH</i>
Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams		20 h.	20 h.	40 h.
Individual study and work, tests and evaluations and check points		12 h.	8 h.	20 h.
EVALUATION SYSTEM	<i>W</i>	MAKE-UP MECHANISMS		
Individual written and oral tests to assess technical skills of the subject	60%	Individual written and oral tests to assess technical skills of the subject		
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	40%	Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence		

CH - Class hours: 32 h.
NCH - Non-class hours: 28 h.
TH - Total hours: 60 h.

CONTENTS

1. Introduction to Operations
2. Production Master Plan
3. Material Management (MRP)
4. JIT (Kanban)
5. Theory of Constraints
6. Demand Driven MRP

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography
Subject notes Topic related web quires Moodle Platform Video projections Slides of the subject Presentations by external Lecturers	LA MÁQUINA QUE CAMBIÓ EL MUNDO. Womack, J.P.; Jones, A.T. y Ross, D. Ed. McGraw-Hill 1992 REINVENTAR LA FÁBRICA. Harmon, R.L. y Peterson, LD. Ed. Ciencias de la Dirección 1.990 Administración de producción y operaciones. Chase, Aquilano, Jacobs.2000. Mc Graw Hill CUATRECASAS Lluís. Diseño de procesos de producción flexible. Productivity Press, Inc. 1996. ISBN: 84-87022-25-1 SEKINE, Kenichi. Diseño de células de fabricación. ProductivityPress, Inc. 1993. ISBN: 84-87022-03-0 HYER, Nancy; WEMMERLÖV, Urban. Reorganizing the factory. Productivity Press, Inc. 2002. ISBN: 1-56327-228-8 HIRANO H. Manual para la implantación del JIT. Productivity Press PTAK, C. & SMITH, C. 2011. Orlicky's Material Requirements Planning 3/E, McGraw Hill Professional. Jay Heizer & Barry Render. Operations Management Ed: Practice Hall ISBN:0-13-018604-X Kanban Just In Time, Toyotan Japan Management Association Ed. Rev ISBN 84-87022-39 Pull production for the shopfloor. Productivity Press Development Team ISBN 1-56327-274-1 GOLDRATT, E. 2010. La meta, Ediciones Granica SA GOLDRATT, E. M. 1994. La carrera, Ediciones Granica SA.