



## Teaching Guide

Identifying Data					2024/25
Subject (*)	Industrial Logistics	Code	771G01045		
Study programme	Grao en Enxeñaría de Deseño Industrial e Desenvolvemento do Produto				
Descriptors					
Cycle	Period	Year	Type	Credits	
Graduate	2nd four-month period	Fourth	Optional	6	
Language	Spanish				
Teaching method	Face-to-face				
Prerequisites					
Department	Empresa				
Coordinador	Domínguez Feijóo, Gerardo	E-mail	g.dominguez@udc.es		
Lecturers	Domínguez Feijóo, Gerardo	E-mail	g.dominguez@udc.es		
Web	<a href="https://moodle.udc.es/">https://moodle.udc.es/</a>				
General description	<p>This course complements the content of other materials that are directly or indirectly related to economics and business management of the design.</p> <p>The main objective of this is to provide the student with those skills needed on the role of logistics in the company to enable it to acquire a comprehensive view of policies and latest techniques unveiled face to manage the flow of information and materials in this. For that, they will present the basic principles of logistics; new logistics strategies that explain the evolution towards an integrated model between suppliers and customers; purchasing management, stocks ...</p>				

## Study programme competences / results

Code	Study programme competences / results
A1	Aplicar o coñecemento das diferentes áreas involucradas no Plano Formativo.
A4	Traballar de forma efectiva como individuo e como membro de equipos diversos e multidisciplinares.
A6	Formación amplia que posibilite a comprensión do impacto das solucións de enxeñaría nos contextos económico, medioambiental, social e global.
A8	Capacidade de usar as técnicas, habilidades e ferramentas modernas para a práctica da enxeñaría.
A9	Capacidade para efectuar decisións técnicas tendo en conta as súas repercusións ou custos económicos, de contratación, de organización ou xestión de proxectos.
A10	Comprensión das responsabilidades éticas e sociais derivadas da súa actividade profesional.
B1	Capacidade de comunicación oral e escrita de maneira efectiva con ética e responsabilidade social como cidadán e como profesional.
B2	Aplicar un pensamento crítico, lóxico e creativo para cuestionar a realidade, buscar e propoñer solucións innovadoras a nivel formal, funcional e técnico.
B4	Traballar de forma colaborativa. Coñecer as dinámicas de grupo e o traballo en equipo.
B5	Resolver problemas de forma efectiva.
B7	Capacidade de liderado e para a toma de decisións.
B10	Capacidade de organización e planificación.
B12	Comprensión das responsabilidades éticas e sociais derivadas da súa actividade profesional
C4	Acting as a respectful citizen according to democratic cultures and human rights and with a gender perspective
C5	Understanding the importance of entrepreneurial culture and the useful means for enterprising people
C6	Acquiring skills for healthy lifestyles, and healthy habits and routines.
C7	Developing the ability to work in interdisciplinary or transdisciplinary teams in order to offer proposals that can contribute to a sustainable environmental, economic, political and social development.
C8	Valuing the importance of research, innovation and technological development for the socioeconomic and cultural progress of society.

## Learning outcomes

Learning outcomes	Study programme competences / results



Working collaboratively with the different areas of the company involved in the design process and product development, to manage the flow of materials and information on this.	A1	B1	C4
	A4	B2	C5
	A6	B4	C6
	A8	B5	C7
	A9	B7	C8
	A10	B10	
		B12	

Contents	
Topic	Sub-topic
1. Previous concepts about the company.	Definición de empresa. Funcións da empresa. Tipos de empresas. Organización interna dunha empresa. O proceso de dirección dunha empresa. A produtividade nunha empresa.
2. Previous concepts relating to logistics	O ámbito socioeconómico actual. Novos conceptos e novo enfoque. Evolución do concepto de loxística. A loxística no organigrama empresarial. A cadea ou rede loxística: os fluxos de materiais e produtos. Definición de loxística integral. Cadea de valor engadido. Os custos loxísticos.
3. Sourcing and purchasing management	A función de aprovisionamento. A función de compras. Busca e selección de provedores. Control e avaliación de provedores. Negociación de compras.
4. Rotation and coverage Stocks	Aspectos xerais da xestión de stocks. Clasificación operativa e funcional dos stocks. Concepto de rotación e cobertura. Cálculo da norma de stocks e tipos de stocks. Custos de stocks. Sistemas de reposición de stocks. Control de inventarios.
5. organization and management of stock	Xestión de almacéns. Zonificación de almacéns. Automatización. Preparación de pedidos. Manipulación e elementos técnicos.
6. Issuance and delivery of goods. Transportation management.	Distribución física e nivel de servizo: Distribución física. Unidades distribución. Planificación da distribución. Estratexias de distribución. Nivel de servizo. Tendencias de distribución. Programación de itinerarios e vehículos: Organización e transporte de mercadorías. Tipos de vehículos. Planificación de rutas. Programación de vehículos. Sistemas de carga e descarga. Control cadea de distribución. Custos de distribución.
7. Just in Time	Planificación xusto a tempo. Nivelado da produción. Sistema kamban. Redución de tempos de preparación e fabricación. Adaptación á demanda mediante flexibilidade. Control autónomo de defectos. Beneficios da implantación J.I.T.
8. Electronic commerce and logistics.	Sistemas de información. Redes e internet. Comercio electrónico e intranets. Novas oportunidades con tecnoloxía. Planificación de recursos empresariais (ERP). Tecnoloxías no tracking. Os sistemas RFID. O EDI. Principais elementos dun sitio electrónico de venda. Ciclo integral de abastecemento electrónico.
9. Packaging	Definicións e funcións. Clasificación. Criterios de selección. Identificación. Deseño. Maquinaria empregada para envases e embalaxes.

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student's personal work hours	Total hours
Guest lecture / keynote speech	A1 A10 A6 B10 B12 C4 C5 C6 C7	41	82	123
Supervised projects	A4 A9 B1 B2 B4 B7 C5 C8	0	23	23
Mixed objective/subjective test	A8 B2 B5 C6	1	0	1
Personalized attention		3	0	3

(\*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.



## Methodologies

Methodologies	Description
Guest lecture / keynote speech	Oral presentation of the contents of the field, complemented by the use of media and the introduction of some questions to the students, in order to impart knowledge and facilitate learning.
Supervised projects	Methodology designed to promote independent learning of students, under the guidance of the teacher and in various scenarios (academic and professional). It is primarily referred to learning "how to do things." An option based on the assumption by students of responsibility for their own learning. Students will complete the long course, mentored at least one job.
Mixed objective/subjective test	Objective test is to ask a question in the form of direct question the incomplete statement, and several answer options or alternatives that provide possible solutions, of which only one is valid.

## Personalized attention

Methodologies	Description
Guest lecture / keynote speech Supervised projects	Personal attention is basically the embodiment of tutorials, both individual or in groups, to resolve and clarify any doubts regarding the matter and the embodiment of the protected work, in form presencial how in the not presencial, through the platforms deo Virtual Campus of the University..

## Assessment

Methodologies	Competencies / Results	Description	Qualification
Mixed objective/subjective test	A8 B2 B5 C6	Choice exam	70
Supervised projects	A4 A9 B1 B2 B4 B7 C5 C8	Make a project in the course, to decide between teacher and students	30
Others			

## Assessment comments

<p>The ?Students with recognition of dedicación in time partial and metes out academic of exemption of assistance? will communicate to the start of the course his situation the professors of the subject, second establishes the "Norm that regulates the regime of dedicación to the study of the students of degree in the UDC? (Art.3.b And 4.5) and the ?Norms of evaluation, review and claim of the qualifications of the studies of degree and masterado university? (Art. 3 and 8b).</p> <p>The students in this situation will be asses in the date approved by the School, by means of join objective proof envelope the contents of the step 3 of the Guide, and a work to consensus with the professors of the subject. This also applies to early call students.</p> <p>All the aspects related with ?metes out academic?, ?dedicación to the study?, ?permanence? and ?academic fraud? will be governed in accordance with the academic normative of the UDC "<a href="https://www.udc.es/es/normativa/academica/">https://www.udc.es/es/normativa/academica/</a>"</p>
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## Sources of information

<b>Basic</b>	<ul style="list-style-type: none"> <li>- Ronald H. Ballou (2004). Logística. Administración de la cadena de suministro. .</li> <li>- Bureau Veritas formación (2011). Logística Integral. Fundación Confemetal</li> </ul>
<b>Complementary</b>	

## Recommendations

<b>Subjects that it is recommended to have taken before</b>
<b>Subjects that are recommended to be taken simultaneously</b>
Regulations and Legislation/771G01035
<b>Subjects that continue the syllabus</b>



Final Dissertation/771G01027

Economic and Business Aspects of Design/771G01033

Quality Management/771G01044

**Other comments**

?To help to achieve some immediate surroundings sustained and fulfil with the aim of the action number 5: ?Teaching and investigation healthy and sustentable environmental and social? of the "Plan of Action Green Campus Ferrol":1. The delivery of the documentary works that realize in this subject:1.1. They will request in virtual format and/or informatic support1.2. They will realize through Moodle, in digital format without need to print them1.3. In case to be necessary to realize them in paper:- Will not employ plastic.- Will realize impressions to double face.- Will employ paper recycled.- Will avoid the impression of drafts.2. It has to have in account the importance of the ethical principles related with the values of the sostenibilidad in the personal and professional behaviours

(\*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.