Teaching Guide				
Identifying Data				2018/19
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	SpanishGalicianEnglish			
Teaching method	Face-to-face			
Prerequisites				
Department	Empresa			
Coordinador	Dominguez Feijoo, Gerardo	E-mail	g.dominguez@udc.es	
Lecturers	Dominguez Feijoo, Gerardo	E-mail	g.dominguez@udc.es	
Web	https://moodle.udc.es/			
General description	This course complements the content of other materials that are directly or indirectly related to economics and business management of the design. 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 ...			

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.
A8	Capacidade de usar as técnicas, habilidades e ferramentas modernas para a práctica da enxeñaría.
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 sociales derivadas da súa actividade profesional
C4	Desenvolverse para o exercicio dunha cidadanía aberta, culta, crítica, comprometida, democrática e solidaria, capaz de analizar a realidade, diagnosticar problemas, formular e implantar solucións baseadas no coñecemento e orientadas ao ben común.
C5	Entender a importancia da cultura emprendedora e coñecer os medios ao alcance das persoas emprendedoras.
C6	Valorar criticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas cos que deben enfrontarse.
C7	Asumir como profesional e cidadán a importancia da aprendizaxe ao longo da vida.
C8	Valorar a importancia que ten a investigación, a innovación e o desenvolvemento tecnolóxico no avance socioeconómico e cultural da sociedade.

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 A4 A8 A10	B1 B2 B4 B5 B7 B10 B12	C4 C5 C6 C7 C8

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. Peviosus 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 Stokes	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 traking. 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 B10 B12 C4 C5 C6 C7	41	82	123
Supervised projects	A4 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 individuais or in groups, to resolve and clarify any doubts regarding the matter and the embodiment of the protected work.

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

Assessment comments
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 mestrado university? (Art. 3 and 8b). 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.

Sources of information	
Basic	- Ronald H. Ballou (2004). Logística. Administración de la cadena de suministro. . - Bureau Veritas formación (2011). Logística Integral. Fundación Confemetal MIT OpenCourseWare. Logistics Systems. http://ocw.mit.edu/courses/engineering-systems-division/esd-260j-logistics-systems-fall-2006/ (Visita: 31/08/2010).MIT OpenCourseWare. Logistics Systems. http://ocw.mit.edu/courses/engineering-systems-division/esd-260j-logistics-systems-fall-2006/ (Visita: 31/08/2010).
Complementary	

Recommendations
Subjects that it is recommended to have taken before
Subjects that are recommended to be taken simultaneously
Regulations and Legislation/771G01035
Subjects that continue the syllabus
Final Dissertation/771G01027 Economic and Business Aspects of Design/771G01033 Quality Management/771G01044
Other comments

(*)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.