		Teachin	g Guide		
	Identifyin	g Data			2019/20
Subject (*)	Industrial Logistics			Code	730497234
Study programme	Mestrado Universitario en Enxeña	aría Industrial (plan 2018)		'
		Desci	riptors		
Cycle	Period	Ye	ear	Туре	Credits
Official Master's Degree	2nd four-month period	Sec	cond	Optional	4.5
Language	Spanish		,		
Teaching method	Face-to-face				
Prerequisites					
Department	Empresa				
Coordinador	Ríos Prado, Rosa		E-mail	rosa.rios@udc.	es
Lecturers	Crespo Pereira, Diego		E-mail	diego.crespo@	udc.es
	Ríos Prado, Rosa			rosa.rios@udc.	es
Web					
General description					
	Subject in which will work on the I	logistics of the	company: supply o	chain, location of facilit	ies, routes, warehouses and
	transport.				

	Study programme competences
Code	Study programme competences
A9	EG1 - Knowledge and skills to organize and manage companies.
A10	EG2 - Knowledge and skills of strategy and planning applied to different organizational structures.
A12	EG4 - Knowledge of financial accounting and costs.
A13	EG5 - Knowledge of management information systems, industrial organization, production systems and logistics and quality management
	systems.
B2	CB7 - That students know how to apply the knowledge acquired and their ability to solve problems in new or unfamiliar environments
	within broader (or multidisciplinary) contexts related to their area of ??study.
В3	CB8 - That students are able to integrate knowledge and face the complexity of making judgments based on information that, being
	incomplete or limited, includes reflections on the social and ethical responsibilities linked to the application of their knowledge and
	judgments.
B4	CB9 - That the students know how to communicate their conclusions -and the knowledge and ultimate reasons that sustain them- to
	specialized and non-specialized audiences in a clear and unambiguous way.
B6	G1 - Have adequate knowledge of the scientific and technological aspects in Industrial Engineering.
B13	G8 - Apply the knowledge acquired and solve problems in new or unfamiliar environments within broader and multidisciplinary contexts.
B14	G9 - Be able to integrate knowledge and face the complexity of making judgments based on information that, being incomplete or limited
	includes reflections on social and ethical responsibilities linked to the application of their knowledge and judgments.
B15	G10 - Knowing how to communicate the conclusions -and the knowledge and ultimate reasons that sustain them- to specialized and
	non-specialized publics in a clear and unambiguous way.
C1	ABET (a) - An ability to apply knowledge of mathematics, science, and engineering.
C3	ABET (c) - An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic,
	environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
C6	ABET (f) - An understanding of professional and ethical responsibility.
C7	ABET (g) - An ability to communicate effectively.
C8	ABET (h) - The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and
	societal context.
C9	ABET (i) - A recognition of the need for, and an ability to engage in life-long learning.
C11	ABET (k) - An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Learning outcomes

Learning outcomes	Stud	y progra	amme
	CO	mpeten	ces
Knowledge and skills to organize and manage companies.	AJ9	BJ6	CJ11
	AJ10	BJ13	
		BJ15	
Knowledge and skills of strategy and planning.	AJ10	BJ2	CJ3
	AJ13	BJ3	
		BJ4	
Knowledge of financial accounting and costs.	AJ12	BJ2	CJ1
			CJ8
Knowledge of management information systems, industrial organization, production and logistics systems and quality	AJ9	BJ14	CJ1
management systems.	AJ13		CJ6
			CJ7
Knowledge about methods and techniques of transport and industrial maintenance.	AJ10	BJ13	CJ1
	AJ13	BJ14	CJ3
			CJ9

	Contents
Topic	Sub-topic
1. Supply chain management.	Xestión da cadea de suministro
2. Geographic information systems (GIS).	2. Sistemas de información xeográfica (GIS)
3. Facilities location methods.	3. Métodos de ubicación de instalacions
4. Desing and management of warehouses and inventories.	4. Deseño e xestión de almacens e inventarios
5. Transport.	5. Transporte
6. Route planning.	6. Planificación de rutas

	Planning			
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	
Guest lecture / keynote speech	A9 A10 A12 A13 B2	10.5	13.5	24
	B15 B6 C6 C8 C9			
Problem solving	A9 A10 A12 A13 B13	8.5	15.5	24
	B14 C1			
ICT practicals	A13 A10 C11 C1	10.5	19.5	30
Supervised projects	A9 A10 A12 A13 B2	2	26	28
	B3 B4 B13 B15 B14			
	C1 C3 C6 C7 C8 C9			
	C11			
Objective test	A9 A10 A12 A13 B3	0	6	6
	B4 B6 C1 C3 C6 C7			
	C8 C9 C11			
Personalized attention		0.5	0	0.5

	Methodologies		
Methodologies	Methodologies Description		
Guest lecture /	est lecture / Classes of exposition of the lessons of the subject.		
keynote speech	keynote speech		
Problem solving	Problem solving Resolution of exercises and logistical problems.		
ICT practicals	ICT practicals Resolution of practical cases through software such as QGIS, Excel		



Supervised projects	Resolution of practical cases supervised by teachers.	
Objective test	Final exam of the subject.	

	Personalized attention
Methodologies	Description
Supervised projects	Students will be tutored in the resolution process of the proposed cases. It will be held at agreed times between the student and the teacher, either in tutoring or outside of it.

		Assessment	
Methodologies	Competencies	Description	Qualification
Supervised projects	A9 A10 A12 A13 B2		60
	B3 B4 B13 B15 B14	One or several supervised works will be considered during the course, with different	
	C1 C3 C6 C7 C8 C9	logistical problems to be solved by the student, using the tools taught during the	
	C11	course. Will have the tutorization of the teachers of the subject.	
Objective test	A9 A10 A12 A13 B3		40
	B4 B6 C1 C3 C6 C7	Exam of the subject with both theoretical and practical questions.	
	C8 C9 C11		

Assessment comments

O "Alumnado con recoñecemento de dedicación a tempo parcial e dispensa académica de exención de asistencia" comunicarán ó inicio do curso a súa situación os profesores da materia, segundo establece a "Norma que regula o réxime de dedicación ao estudo dos estudantes de grao na UDC" (Art.3.b e 4.5) e as ?Normas de avaliación, revisión e reclamación das cualificacións dos estudos de grao e mestrado universitario (Art. 3 e 8b). Para os alumnos que soliciten a dispensa académica a avaliación será igual ao resto xa que os traballos serán completados fóra do horario de clases. Tamén deberán ir o exame.Os alumnos de segunda oportunidade que non seguiran a avaliación continua poderán ter un exame que os avalie do total das competencias, podendo ser este diferente dos que xa adquiriron competencias cos traballos e prácticas do curso.

	Sources of information
Basic	- ()
	- Ballou, Ronald H. (2004). Logística: Administración de La Cadena de Suministro. Pearson Educación, México
	- Ballou, Ronald H. (1991). Logística empresarial : control y planificación. Díaz de Santos, Madrid
	- Mauleón, Mikel (2006). Logística y costos. Díaz de Santos, Madrid
Complementary	

Recommendations
Subjects that it is recommended to have taken before
Subjects that are recommended to be taken simultaneously
Subjects that continue the syllabus
Other comments



1.

A entrega dos traballos documentais que se realicen nesta materia: 1.1. Solicitarase en formato virtual e/ou soporte informático. 1.2. Realizarase a través de Moodle, en formato dixital sen necesidade de de imprimilos 1.3. De se realizar en enbsp; *

Non se empregarán plásticos. * *ealizaranse impresións a dobre cara. *
Empregarase papel reciclado. * Evitarase a impresión de borradores.

(*)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.