



Teaching Guide

Teaching Guide				
Identifying Data				2017/18
Subject (*)	Production and logistics systems management		Code	730497009
Study programme	Mestrado Universitario en Enxeñaría Industrial (plan 2012)			
Descriptors				
Cycle	Period	Year	Type	Credits
Official Master's Degree	1st four-month period	Second	Obligatoria	4.5
Language	Spanish			
Teaching method	Face-to-face			
Prerequisites				
Department	EconomíaEmpresa			
Coordinador	Garcia del Valle, Alejandro	E-mail	alejandro.garcia.delvalle@udc.es	
Lecturers	Garcia del Valle, Alejandro Lamas Rodriguez, Adolfo	E-mail	alejandro.garcia.delvalle@udc.es adolfo.lamasr@udc.es	
Web				
General description	This subject deals with Production Management and Logistics from the point of view of Industrial Engineering			

Study programme competences

Code	Study programme competences
A13	Coñecementos de sistemas de información á dirección, organización industrial, sistemas produtivos e loxística, así como sistemas de xestión de calidade.
A14	Capacidade para a organización do traballo e a xestión de recursos humanos. Coñecementos sobre a prevención de riscos laborais.
B2	Que os estudantes saiban aplicar os coñecementos adquiridos e a súa capacidade de resolución de problemas en ámbitos novos ou pouco coñecidos dentro de contextos máis amplos (ou multidisciplinares) relacionados coa súa área de estudo.
B3	Que os estudantes sexan capaces de integrar coñecementos e enfrontarse á complexidade de formular xuízos a partir dunha información que, sendo incompleta ou limitada, inclúa reflexións sobre as responsabilidades sociais e éticas vinculadas á aplicación dos seus coñecementos e xuízos.
B5	Que os estudantes posúan as habilidades de aprendizaxe que lles permitan continuar estudando dun modo que terá que ser en boa medida autodirixido ou autónomo.
B7	Falar ben en público.
C1	Utilizar as ferramentas básicas das tecnoloxías da información e as comunicacións (TIC) necesarias para o exercicio da súa profesión e para a aprendizaxe ao longo da súa vida.

Learning outcomes

Learning outcomes	Study programme competences		
Knowledge of information systems, industrial management, production systems and logistics.	AJ13 AJ14	BJ2 BJ3 BJ5 BJ7	CJ1
Ability to apply knowledge to solve problems of production and logistics systems.	AJ13 AJ14	BJ2 BJ3 BJ5 BJ7	CJ1
Using tools of information technology and communications for the exercise of the profession.	AJ13 AJ14	BJ2 BJ3 BJ5	CJ1

Contents

Topic	Sub-topic



The following blocks or topics develop the contents established in the description of the Verification Memory that are:	Production systems. Work measurement and human resources. Assignment of resources and planning of tasks. Lean Manufacturing. Manufacturing "Just in Time". Control and quality management. Logistics systems: supply chain management.
1. Introduction. Production and logistic systems.	.
2. Plant layout. Assembly line balancing	
3. Production Management	
4. Quality control and management.	
5. LEAN logistics and Just in Time.	
6. Logistic systems: Supply Chain Management.	
7. Transport Logistics.	

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student's personal work hours	Total hours
Guest lecture / keynote speech	A13 A14	30	30	60
ICT practicals	A13 A14 B2 B3 C1	12	35.5	47.5
Mixed objective/subjective test	A13 A14 B5 B6 B7	3	0	3
Personalized attention		2	0	2
(*)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	Lectures of the course topics
ICT practicals	Practical cases solved with software tools: Excel, ExtendSim.
Mixed objective/subjective test	Final exam of the subject

Personalized attention	
Methodologies	Description
Guest lecture / keynote speech ICT practicals	The personal attention will take place in the tutorials.

Assessment			
Methodologies	Competencies	Description	Qualification
ICT practicals	A13 A14 B2 B3 C1	Jobs and case studies solved by PC.	25
Mixed objective/subjective test	A13 A14 B5 B6 B7	Final exam with questions of theory and problems.	75

Assessment comments
The "students with recognition of a part-time academic and exemption of assistance" will communicate at the beginning of the course your situation to the teachers of the subject, as established by the "Standard that regulates the dedication to the study of undergraduates in the UDC "(Art.3.be 4.5) and the" Standards for evaluation, review and claim of the qualifications of undergraduate and master's degree (Art. 3 and 8b).Students in this situation will be assessed on the date approved by the School Board, by an objective test consisting of solving exercises on the contents of step 3 of the Guide.



Sources of information

Basic	- Ronald H. Ballou (2004). Logística: Administración de la Cadena de Suministro. Pearson Education - Richard B. Chase, F. Robert Jacob, Nicholas J. Aquilano (2009). Administración de Operaciones. Producción y Cadena de Suministros. McGraw-Hill - Nigel Slack, Stuart Chambers, Robert Johnston (2010). Operations Management. Prentice Hall - Jordi Pau Cos, Ricardo de Navasvués (1998). Manual de Logística Integral. Díaz de Santos
Complementary	- Michael Pinedo (1995). Scheduling. Theory, Algorithms and Systems. Prentice Hall

Recommendations

Subjects that it is recommended to have taken before

Business management/730497010

Subjects that are recommended to be taken simultaneously

Subjects that continue the syllabus

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.