Teaching Guide				
Identifying Data				2015/16
Subject (*)	ORGANIZACIÓN DE EMPRESAS		Code	730G04024
Study programme	Grao en enxeñaría en Tecnoloxías Industriais			
Descriptors				
Cycle	Period	Year	Type	Credits
Graduate	1st four-month period	Third	Obligatoria	6
Language	Spanish			
Teaching method	Face-to-face			
Prerequisites				
Department	Análise Económica e Administración de Empresas			
Coordinador	Garcia del Valle, Alejandro	E-mail	alejandro.garcia.delvalle@udc.es	
Lecturers	Crespo Pereira, Diego Garcia del Valle, Alejandro Lamas Rodriguez, Adolfo	E-mail	diego.crespo@udc.es alejandro.garcia.delvalle@udc.es adolfo.lamasr@udc.es	
Web	www.gii.udc.es			
General description	This course teaches operations management from the point of view of Industrial Engineering.			

Study programme competences	
Code	Study programme competences
A15	Coñecementos básicos dos sistemas de produción e fabricación.
A17	Coñecementos aplicados de organización de empresas.
B2	Que os estudantes saiban aplicar os seus coñecementos ao seu traballo ou vocación dunha forma profesional e posúan as competencias que adoitan demostrarse por medio da elaboración e defensa de argumentos e a resolución de problemas dentro da súa área de estudo
B3	Que os estudantes teñan a capacidade de reunir e interpretar datos relevantes (normalmente dentro da súa área de estudo) para emitiren xuízos que inclúan unha reflexión sobre temas relevantes de índole social, científica ou ética
B4	Que os estudantes poidan transmitir información, ideas, problemas e solucións a un público tanto especializado como leigo
B5	Que os estudantes desenvolvan aquelas habilidades de aprendizaxe necesarias para emprenderen estudos posteriores cun alto grao de autonomía
B7	Ser capaz de realizar unha análise crítica, avaliación e síntese de ideas novas e complexas
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.
C4	Valorar criticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas cos que deben enfrontarse.
C6	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		
Knowledge of organization of enterprises and production systems.	A15 A17		C6
Analyze and break down processes of industrial organization. Simplify complex problems.		B5 B7	
Use software to solve problems of organization of companies with large volume of data.		B2 B3 B4	C1 C4

Contents	
Topic	Sub-topic
1. Introduction	

2. Technical and economic analysis of decisision alternatives	
3. Selection, design and process analysis	
4. Forecasting and demand planning	
5. Aggregate Production Planning	
6. Gestión de inventarios	
7. LEAN and JIT Production	
8. Enterprise Resource Planning ERP	
9. Scheduling jobs	

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
Guest lecture / keynote speech	A15 A17 B2 B3 B4 B5 C6	24	44.4	68.4
ICT practicals	B7 C1 C4	32	33.6	65.6
Mixed objective/subjective test	B4 B5	4	12	16
Personalized attention		0	0	0
(*)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 in large groups
ICT practicals	Classes in medium and small groups using ICT (Excel, ExtendSim and other appropriate tools).
Mixed objective/subjective test	Final exam

Personalized attention	
Methodologies	Description
Guest lecture / keynote speech ICT practicals Mixed objective/subjective test	Personal attention will be made in tutorial hours.

Assessment			
Methodologies	Competencies	Description	Qualification
ICT practicals	B7 C1 C4	Classes in medium and small groups using ICT (Excel, ExtendSim and other appropriate tools).	25
Mixed objective/subjective test	B4 B5	Final exam.	75

Assessment comments

Sources of information

Basic	- García del Valle, Alejandro; Lamas, Adolfo; Crespo, Diego (). Apuntes de Organización de Empresas. Moodle - Slack, Nigel; Chambers, Stuart; Johnston, Robert (). Operations Management. Prentice Hall - Heizer, Jay and Render, Barry (). Operations Management. Prentice Hall - Collier, David Alan; Evans, James R. (). OM4. CENGAGE Learning - David Krahl, Robin Clark (2011). ExtendSIM for Discrete Event System Simulation. Imagine That!
Complementary	- Askin, Ronald G and Jeffrey, B. Goldberg (2002). Desing and Analysis of Lean Production Systems. John Wiley - Greasley, Andrew (2009). Operations Management. John Wiley

Recommendations
Subjects that it is recommended to have taken before
XESTIÓN EMPRESARIAL/730G03010 ESTATÍSTICA/730G03008
Subjects that are recommended to be taken simultaneously
Subjects that continue the syllabus
Other comments
There is an extensive literature on Operations Management in the library of the Polytechnic School (mostly in English).   The chapters of the course are available in PDF documents in Moodle. Exams and solutions of recent years are available in Moodle .

(*)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.