		Teaching (Guide				
	Identifying	g Data			2021/22		
Subject (*)	Industrial Management		Code	730G03024			
Study programme	Grao en Enxeñaría Mecánica						
	,	Descript	tors				
Cycle	Period	Year		Туре	Credits		
Graduate	1st four-month period	Third	I	Obligatory	6		
Language	Spanish		'		- I		
Teaching method	Face-to-face						
Prerequisites							
Department	EconomíaEmpresa						
Coordinador	Crespo Pereira, Diego		E-mail	diego.crespo@	udc.es		
Lecturers	Crespo Pereira, Diego		E-mail	diego.crespo@	udc.es		
	Garcia del Valle, Alejandro			alejandro.garcia	a.delvalle@udc.es		
	Pernas Álvarez, Javier			javier.pernas2@udc.es			
Web	www.gii.udc.es						
General description	This course teaches Operations M	anagement from	the point of view	of Industrial Engine	ering.		
Contingency plan	1. Modifications to the contents						
	2. Methodologies						
	*Teaching methodologies that are maintained						
	*Teaching methodologies that are modified						
	3. Mechanisms for personalized attention to students						
	4. Modifications in the evaluation						
	*Evaluation observations:						
	5. Modifications to the bibliography or webgraphy						

	Study programme competences
Code	Study programme competences
A17	CR11 - Coñecementos aplicados de organización de empresas.
B2	CB02 - 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
В3	CB03 - 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	CB04 - Que os estudantes poidan transmitir información, ideas, problemas e solucións a un público tanto especializado como leigo
B5	CB05 - Que os estudantes desenvolvan aquelas habilidades de aprendizaxe necesarias para emprenderen estudos posteriores cun alto
	grao de autonomía
В7	B5 - Ser capaz de realizar unha análise crítica, avaliación e síntese de ideas novas e complexas
C1	C3 - 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	C6 - Valorar criticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas cos que deben enfrontarse.
C6	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		
Knowledge of operations management methods.	A17	B2	C1
		В3	C4
		B4	C6
		B5	
		В7	
Knowledge of manufacturing systems.	A17	B2	C1
		В3	C4
		B4	C6
		B5	
		В7	

	Contents
Торіс	Sub-topic
The following topics develop the contents established in the	The Production System. Operations management. Planning, management and
tab of the Verification Memory that are:	control.
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. Inventory Management	
7. LEAN and JIT Production	
8. Enterprise Resource Planning ERP	
9. Scheduling jobs	

	Planning			
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	
Guest lecture / keynote speech	A17 B2 B3 B5	30	30	60
ICT practicals	B4 B7 C1 C4 C6	15	15	30
Supervised projects	A17 B2 B3 B4 B5 B7	2	20	22
	C1 C4 C6			
Problem solving	A17 B2 B3 B4 B5 B7	13	13	26
	C1 C4 C6			
Mixed objective/subjective test	A17 B2 B3 B4 B5 B7	3	6	9
	C1 C4 C6			
Personalized attention		3	0	3

	Methodologies
Methodologies	Description
Guest lecture /	Lectures in large groups
keynote speech	
ICT practicals	Classes in medium and small groups using ICT (Excel, ExtendSim and other appropriate tools).
Supervised projects	Team based work proposed by the teacher at the beggining of the course.
Problem solving	Classes for solving problems using a computer.



Mixed	Final exam
objective/subjective	
test	

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

		Assessment	
Methodologies	Competencies	Description	Qualification
Mixed	A17 B2 B3 B4 B5 B7	Final exam.	70
objective/subjective	C1 C4 C6		
test			
Supervised projects	A17 B2 B3 B4 B5 B7	Submission and presentation of a project proposed by the teacher.	30
	C1 C4 C6		

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. The students will be graded according to the weights assigned to each methodology in the previous table. In the second chance exam the students can resit the mixed test.

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

Recommendations	
Subjects that it is recommended to have taken before	
tatistics/730G03008	
usiness Management/730G03010	
Subjects that are recommended to be taken simultaneously	
Subjects that continue the syllabus	
Other comments	
here is an extensive literature on Operations Management in the library of the Polytechnic School (mostly in English). The chapters of the cour	

available as PDF documents in Moodle. Exams and solutions of previous 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.