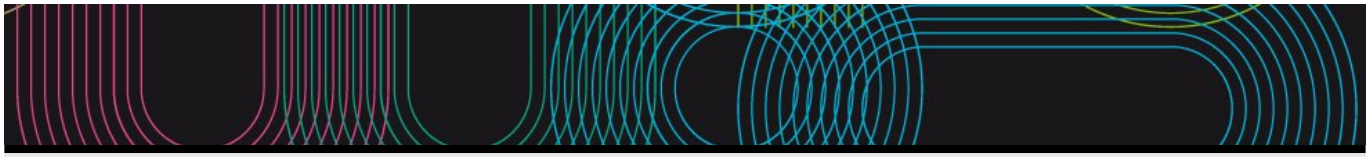

IDENTIFYING DATA				
Basics of operations management				
Subject	Basics of operations management			
Code	V12G363V01305			
Study programme	Grado en Ingeniería en Tecnologías Industriales			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Mandatory	2nd	1st
Teaching language	Spanish			
Department				
Coordinator	Doiro Sancho, Manuel			
Lecturers	Doiro Sancho, Manuel Lozano Lozano, Luis Manuel Mejías Sacaluga, Ana María Sartal Rodríguez, Antonio			
E-mail	mdoiro@uvigo.es			
Web				
General description				

Skills	
Code	
B8	CG8 Ability to apply the principles and methods of quality.
B9	CG9 Ability to organize and plan within the sphere of a company, and other institutions and organizations.
C15	CE15 Basic knowledge of production systems and manufacturing.
C17	CE17 Applied knowledge of business organization.
D1	CT1 Analysis and synthesis.
D2	CT2 Problems resolution.
D7	CT7 Ability to organize and plan.
D8	CT8 Decision making.
D9	CT9 Apply knowledge.
D11	CT11 Planning changes to improve overall systems.
D18	CT18 Working in an international context.

Learning outcomes			
Expected results from this subject	Training and Learning Results		
New	B8 B9	C15 C17	D1 D2 D7 D8 D9 D11 D18

Contents	
Topic	
(*)PART *I. CURRENT SURROUNDINGS And PRODUCTIVE SYSTEMS (3*h)	(*)1.1.CURRENT SURROUNDINGS OF THE COMPANY 1.2.THE PRODUCTIVE SYSTEMS And THE MEASURE OF THE PRODUCTIVITY1.3.CONCEPT OF MANAGEMENT OF PRODUCTION. FUNCTIONS

(*)PART *II. FORECAST OF THE DEMAND	(*)2. INTRODUCTION. COMPONENTS. METHODS OF FORECAST OF THE DEMAND3.QUANTITATIVE METHODS OF FORECAST
(*)PART *III. MANAGEMENT OF INVENTORIES And MANAGEMENT OF PRODUCTION	(*)4.BASIC CONCEPTS OF CONTROL And MANAGEMENT OF INVENTORIES5.CONTROL OF INVENTORIES6.MANAGEMENT OF INVENTORIES IN INDUSTRIAL COMPANIES
(*)PART *IV. MANAGEMENT OF PRODUCTION IN INDUSTRIAL COMPANIES	(*)7.PLANNING OF PRODUCTION. PLAN ADDED. MASTER PLAN OF PRODUCTION 8.PLANNING OF NEEDS OF MATERIAL (*MRP)9.PLANNING OF NEEDS OF CAPACITY (*CRP) 10.PROGRAMMING OF PRODUCTION. CRITERIA And BASIC RULES
(*)PART *V. INTRODUCTION AL STUDY OF THE WORK	(*)11.INTRODUCTION AL STUDY OF THE WORK. STANDARDISATION OF OPERATIONS.12. DISTRIBUTION IN PLANT
(*)PART SAW. THE PHILOSOPHY JUST IN TIME (*JIT)	(*)12.THE PHILOSOPHY *JUST *IN *TIME (*JIT). DEFINITION And OBJECTIVE. ELEMENTS. OTHER APPROACHES OF IMPROVEMENT 13. SOFTENED OF THE PRODUCTION.
(*)PART *VII. INTRODUCTION To THE MANAGEMENT OF THE QUALITY, THE SECURITY And THE ENVIRONMENT	(*)14. INTRODUCTION To THE MANAGEMENT OF THE QUALITY, THE SECURITY And THE ENVIRONMENT
(*)PRACTICAL	(*)1. INTRODUCTION 2.FORECAST OF THE DEMAND3. CONTROL OF INVENTORIES4. MANAGEMENT OF INVENTORIES5. PLANNING OF THE PRODUCTION *I6. PLANNING OF THE PRODUCTION *II7. LISTS OF MATERIALS And OPERATIONS8. PLANNING OF THE CAPACITY9. PROGRAMMING OF THE PRODUCTION10. GLOBAL CASE OF MANAGEMENT OF PRODUCTION

Planning

	Class hours	Hours outside the classroom	Total hours
Lecturing	32.5	64.5	97
Practices through ICT	18	18	36
Objective questions exam	6	6	12
Laboratory practice	2	3	5

*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies

	Description
Lecturing	(*)Exposición por parte do profesor dos contidos sobre a materia obxecto de estudo, bases teóricas e/ou directrices do traballo, exercicio ou proxecto a desenvolver polo estudante.
Practices through ICT	(*)Actividades de aplicación dos coñecementos a situacións concretas e de adquisición de habilidades básicas e *procedimentales relacionadas coa materia obxecto de estudo. Desenvólvense en espazos especiais con equipamento adecuado.

Personalized assistance

Methodologies	Description
Lecturing	
Practices through ICT	

Assessment

	Description	Qualification	Training and Learning Results		
Objective questions exam	(*)2 Teórico-Prácticas: Probas de avaliación continua que se realizarán a o longo do curso, nas clases de teoría, distribuídas de forma uniforme e programadas para que non interfiran no resto das materias. Cada unha destas probas (puntuación sobre 10) constarán dunha parte tipo test (5 puntos) e doutra de exercicios (5 puntos). Para poder superar ou compensar dita proba hai que alcanzar en cada unha das partes polo menos 1,75 puntos	60	B8 B9	C15 C17	D1 D2 D7 D8 D9 D18
Laboratory practice	(*)1 Práctica de exercicios: Proba de avaliación continua que se realizará en as clases de prácticas.	40	B8 B9	C15 C17	D1 D2 D7 D8 D9 D18

Other comments on the Evaluation

Sources of information

Basic Bibliography

Chase, R.B y Davis, M.M., **Administración de Operaciones. Producción y cadena de suministros**, McGraw-Hill, 2014

hase, R.B y Davis, M.M., **Administración de Operaciones. Producción y cadena de suministros**, McGraw-Hill, 2014

Krajewski, Ritzman y Malhotra, **Administración de Operaciones. Procesos y cadena de suministro**, Pearson, 2013

Complementary Bibliography

Heizer, J. y Render, B., **Dirección de la Producción y de Operaciones. Decisiones Estratégicas y Tácticas**, Pearson, 2015

Larrañeta, J.C., Onieva, L. y Lozano, S., **Métodos Modernos de gestión de la Producción**, Alianza Editorial, 1995

Schroeder, R.G., **Administración de Operaciones**, McGraw-Hill, 2011

Recommendations

Contingency plan

Description

=== EXCEPTIONAL MEASURES SCHEDULED ===

In front of the uncertain and unpredictable evolution of the sanitary alert caused by the *COVID-19, the University of Vigo establishes an extraordinary planning that will activate in the moment in that the administrations and the own institution determine it attending to criteria of security, health and responsibility, and guaranteeing the teaching in a no face-to-face stage or partially face-to-face. These already scheduled measures guarantee, in the moment that was prescriptive, the development of the teaching of a more agile and effective way when being known in advance (or with a wide *antelación) by the students and the *profesorado through the tool normalised and institutionalised of the educational guides.

=== ADAPTATION OF THE METHODOLOGIES ===

* educational Methodologies that keep :

THEORETICAL CLASSES
will use the archives in format pdf of the transparencies of the subject like basic document for the follow-up of the matter. In case that some content was especially complicated to comprise or that arouse numerous ask after part of the students, will incorporate additional information (through the forums of *Faitic or by means of the incorporation of complementary documentation). The classes will give in the usual schedules, but through the remote campus or some another half equivalent.

* Educational methodologies that modify

PRACTICAL CLASSES
will propose the realisation of a group of practices guided that they will be sent through email/*Faitic to the professor commissioned of the practices. For a suitable development of the practical activity and can make properly the exercises proposed, is necessary to have studied the corresponding theoretical contents to the thematic of the practice. Besides, to facilitate the realisation of the practices, for each one of them will show a practical type resolved, similar to the proposal, but with different numerical data/parameters. Also they will program sessions to resolve on-line doubts through the remote campus.

* Mechanism no face-to-face of attention to the students (*tutorías)

will indicate time bands for his teaching through the remote campus and/or under demand of the previous students sending of email.

* Modifications (if they proceed) of the contents to give

does not proceed

* additional Bibliography to facilitate the car-learning

does not proceed

* Other modifications

does not proceed

=== ADAPTATION OF THE EVALUATION ===
In the case of not being able to make the proofs of face-to-face way, guarantees the same structure of the face-to-face evaluation (same proofs and same weights). When they can not make of face-to-face way, the proofs will make through the available remote means in the *UVigo (*Faitic, Remote Campus,) and will establish mechanisms of suitable control to avoid unsuitable behaviours that break the ethical code established by the University of Vigo and the School of Industrial Engineering. In any case, guarantees that the students will be able to surpass the subject by continuous evaluation without need to assist to the final examination official collected in the planning of the School.