



## IDENTIFYING DATA

### Basics of operations management

Subject	Basics of operations management			
Code	V12G350V01501			
Study programme	Degree in Industrial Chemical Engineering			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Mandatory	3rd	1st
Teaching language	Spanish			
Department	Business Organisation and Marketing			
Coordinator	Doiro Sancho, Manuel			
Lecturers	Doiro Sancho, Manuel			
E-mail	mdoiro@uvigo.es			
Web				
General description				

## Competencies

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 Ability to understand the meaning and application of the gender perspective in the different fields of knowledge and in professional practice with the aim of achieving a more just and equal society
D18	CT18 Working in an international context.

## Learning outcomes

Expected results from this subject	Training and Learning Results		
	B8	C15	D1
<input type="checkbox"/> Know the base on which support the activities related with the Organization and the Management of the Production.	B9	C17	D2
<input type="checkbox"/> Know the extent of the distinct activities related with the production.			D7
<input type="checkbox"/> Purchase a vision of group for the execution of the activities related with the organization and management of the production.			D8
<input type="checkbox"/> Realize an assessment of the places of work from an approach that help to the development of the people with a perspective of eficiencia and equality			D9
			D11
			D18

## Contents

Topic	
PART I. CURRENT SURROUNDINGS And PRODUCTIVE SYSTEMS	1.CURRENT SURROUNDINGS OF THE COMPANY.THE PRODUCTIVE SYSTEMS
SPLITS II. FORECAST OF THE DEMAND	2. INTRODUCTION. COMPONENTS. METHODS OF FORECAST OF THE DEMAND: CUANTITATIVOS And CUALITATIVOS

PART III. MANAGEMENT OF INVENTORIES And MANAGEMENT OF PRODUCTION	3.BASIC CONCEPTS OF THE INVENTORIES. CONTROL OF INVENTORIES 4.MANAGEMENT OF INVENTORIES. BASIC MODELS
PART IV. MANAGEMENT OF PRODUCTION IN INDUSTRIAL COMPANIES	5.PLANNING OF PRODUCTION. PLAN AGREGADO. MASTER PLAN OF PRODUCTION 6.PLANNING OF NEEDS OF MATERIAL (MRP) 7.PLANNING OF CAPACITY. 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 *16. PLANNING OF THE PRODUCTION *17. 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
Computer practices	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.
Computer practices	(*)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 attention

Methodologies	Description
Lecturing	
Computer practices	

### Assessment

	Description	Qualification	Training and Learning Results		
Objective questions exam	(*)2 Teórico-Prácticas: Probas de avaliación continua que se realizarán a o longo de o curso, en as clases de teoría, distribuídas de forma uniforme e programadas para que non interfiran en o resto de as materias.	60	B8 B9	C15 C17	D1 D2 D7 D8 D9 D11 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 D11 D18

### Other comments on the Evaluation

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**Sources of information**

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**Basic Bibliography**

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

Domínguez Machuca, J.A. y otros, **Dirección de Operaciones: aspectos tácticos y operativos en la producción y los servicios**, McGraw-Hill, 1995

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

**Complementary Bibliography**

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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

Vollmann, T.E., Berry, W.L. y Whybark, D.C. , **Sistemas de Planificación y Control de la Fabricación**, Irwin, 1995

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**Recommendations**

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