



Course guide

240EI015 - 240EI015 - Industrial Scheduling

Last modified: 02/06/2022

Unit in charge: Barcelona East School of Engineering
Teaching unit: 732 - OE - Department of Management.

Degree: MASTER'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2012). (Compulsory subject).
MASTER'S DEGREE IN MATERIALS SCIENCE AND ENGINEERING (Syllabus 2014). (Compulsory subject).

Academic year: 2022 **ECTS Credits:** 4.5 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: Doménech Léga, Bruno

Others: Cuatrecasas Castellsagues, Oriol
Abad Pequeño, Severino
Fontcuberta Adalid, Cristina

PRIOR SKILLS

- Numerical ability.
- Reflective, analytical and synthesis attitudes.
- Proactivity and responsibility.

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

CEMCEM-09. (ENG) Dirigir i organitzar empreses, així com sistemes de producció i serveis, aplicant coneixements i capacitats de organització industrial, estratègia comercial, planificació i logística, legislació mercantil i laboral, contabilitat financera i de costos

Transversal:

01 EIN N1. ENTREPRENEURSHIP AND INNOVATION - Level 1. Showing enterprise, acquiring basic knowledge about organizations and becoming familiar with the tools and techniques for generating ideas and managing organizations that make it possible to solve known problems and create opportunities.

05 TEQ N1. TEAMWORK - Level 1. Working in a team and making positive contributions once the aims and group and individual responsibilities have been defined. Reaching joint decisions on the strategy to be followed.

TEACHING METHODOLOGY

Subject in process of extinction. There is no teaching, the students that enroll it do so only with the right to an exam.

LEARNING OBJECTIVES OF THE SUBJECT

The objective of the subject is to present the basic issues related to the organization of production and logistics systems, in production and services environments, providing the student with a basic conceptual vision accompanied by instrumental aspects.



STUDY LOAD

Type	Hours	Percentage
Hours small group	13,5	12.00
Self study	72,0	64.00
Hours large group	27,0	24.00

Total learning time: 112.5 h

CONTENTS

title english

Description:

content english

Full-or-part-time: 2h

Theory classes: 2h

title english

Description:

content english

Full-or-part-time: 3h

Theory classes: 1h

Practical classes: 1h

Laboratory classes: 1h

title english

Description:

content english

Full-or-part-time: 4h

Theory classes: 2h

Practical classes: 1h

Laboratory classes: 1h

title english

Description:

content english

Full-or-part-time: 4h

Theory classes: 2h

Practical classes: 1h

Laboratory classes: 1h



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Description:

content english

Full-or-part-time: 4h

Theory classes: 2h

Practical classes: 1h

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title english

Description:

content english

Full-or-part-time: 4h

Theory classes: 2h

Practical classes: 1h

Laboratory classes: 1h

title english

Description:

content english

Full-or-part-time: 4h

Theory classes: 2h

Practical classes: 1h

Laboratory classes: 1h

GRADING SYSTEM

Subject in process of extinction. There is only one final test that corresponds to 100% of the final grade of the subject.

BIBLIOGRAPHY

Basic:

- Bautista Valhondo, Joaquín. Gestió d'estocs. Barcelona: Edicions de la Universitat Oberta de Catalunya, 1997. ISBN 8489382581.
- Bautista, J ; Companys, R ; Corominas, A.. Gestió de projectes. Barcelona: Edicions de la Universitat Oberta de Catalunya, 1998. ISBN 8495131005.
- Companys, R.; Corominas, A.. Organización de la producción II - Dirección de Operaciones, volúmenes 1, 2, 3, 4, 5. Barcelona: Edicions UPC, 1995-96. ISBN 8476535457.
- Salvendy, Gavriel. Handbook of industrial engineering : technology and operations management. 3rd ed. New York: John Wiley & Sons, 2001. ISBN 0471330574.
- Shapiro, Jeremy F. Modelling the Supply Chain. 2nd ed. Belmont: Thomson Brooks/Cole, 2007. ISBN 049512611X.
- Axsäter, Sven. Inventory Control [on line]. 3rd ed. New York: Springer, 2015 [Consultation: 21/01/2015]. Available on: <http://dx.doi.org/10.1007/0-387-33331-2>. ISBN 9783319157283.
- Silver, Edward A. ; David F. Pyke ; Rein Peterson. Inventory management and production planning and scheduling. 3rd ed. New York: John Wiley & sons, 1998. ISBN 0471119474.



RESOURCES

Hyperlink:

- <http://ocw.upc.edu/curs/59740/Apunts>. Resource
- <http://www.prothius.com/docencia/?filtre=apuntes&filtre2=OI&lang=es>. Resource