

# Course guide 310514 - 310514 - Production Management in Construction

**Last modified:** 15/05/2023

**Unit in charge:** Barcelona School of Building Construction **Teaching unit:** 732 - OE - Department of Management.

Degree: MASTER'S DEGREE IN BUILDING CONSTRUCTION MANAGEMENT (Syllabus 2015). (Optional subject).

Academic year: 2023 ECTS Credits: 5.0 Languages: Spanish

#### **LECTURER**

**Coordinating lecturer:** Lourdes Perpiñán Pérez

Others:

## **PRIOR SKILLS**

Numerical ability.
Utilization of calculus software.
Analytical ability.
Innovation and teamwork.

# **REQUIREMENTS**

Engineering notions.
Calculus and algebra notions.

# **TEACHING METHODOLOGY**

Theoretical classes where the professor will teach the theoretical and practical contents of the subject.

Practical class: The students, in work groups, must solve the problems explained at class and expound them in front of the class.

# **LEARNING OBJECTIVES OF THE SUBJECT**

Provide to the students the bases of the industrial organization, taking into account theorical al practical screnarios

## **STUDY LOAD**

Туре	Hours	Percentage
Hours medium group	5,0	4.00
Hours large group	15,0	12.00
Self study	90,0	72.00
Guided activities	10,0	8.00
Hours small group	5,0	4.00

**Total learning time:** 125 h

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# **CONTENTS**

# Programming and planning of singular projects

#### **Description:**

Methods utilized for the planning and planning of projects.

- Project (definition, examples and cycle of life).
- Schedule of activities.
- Restrictions (causes, typologies, nomenclature and formalisation).
- Definition, representation and examples of potential problems.
- Definition, representation and examples of compound problems.

**Full-or-part-time:** 8h Theory classes: 4h Practical classes: 4h

## **Operations planning**

#### **Description:**

To know the differences between the different plans of production (aggregated or more detailed).

Apply the different methods of calculation.

Know the concepts of planning, supplies, calculation of needs.

#### Content:

- Master plan of production.
- Aggregated planning: models and techniques for the resolution and examples.
- Detailed planning: list of materials, matrix of type quantities, MRP and examples.

**Full-or-part-time:** 8h Theory classes: 4h Practical classes: 4h

## **Operations management**

## **Description:**

Brief introduction to the management of transactions.

- Productive system.
- Production, business and market.
- Classification of the productive systems.
- Decisions in the productive systems.
- Logistical and management systems.

**Full-or-part-time:** 2h Theory classes: 2h

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# Planning and control d'estocs

# **Description:**

Vision of the deterministic model of management of stocks.

- Concept and classification of stocks.
- Associated costs to the management of stocks.
- Management of stocks by point of order and regular provisioning.
- Harris-Wilson model.
- Uniform sales.
- Multiple items subjected to a restriction.
- Non-homogeneous demand.

**Full-or-part-time:** 8h Theory classes: 4h Practical classes: 4h

# **GRADING SYSTEM**

Continous evaluation about the practical exercises which will be worked at class (25%). Midterm exam (25%).

Final work (50%).

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