

Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura
Degree	532 - Master's in Industrial Engineering
ECTS	6.0
Course	2
Period	First semester
Subject Type	Optional
Module	---

1.Basic info**1.1.Recommendations to take this course****1.2.Activities and key dates for the course****2.Initiation****2.1.Learning outcomes that define the subject****2.2.Introduction****3.Context and competences****3.1.Goals****3.2.Context and meaning of the subject in the degree****3.3.Competences****3.4.Importance of learning outcomes****4.Evaluation****5.Activities and resources****5.1.General methodological presentation**

From a methodological point of view, the course has a highly practical aspect where the student will be able to take advantage of all the knowledge imparted in lectures through carrying out class works and case studies connected with the industrial reality.

To achieve this approach, the course is based on teaching methodologies like PBL (Project Based Learning) or the "Learning by doing", where the student becomes an active subject in the learning process.

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5.2.Learning activities

The program includes the following activities ...

Lectures and problem solving (about 30 teaching hours)

Weekly sessions of two hours.

Work and case studies (80 non-teaching hours and 10 teaching hours)

The execution of coursework and teamwork through practical case studies are considered the fundamental teaching activity where students will acquire most of his competencies and learning outcomes of this course.

Teams will consist of a variable number of students between 3 and 8 and they will have a face-to-face regular monitoring by an advisor.

Conferences and seminars (approximately 4 teaching hours)

To complement the theoretical knowledge of the subject and improve knowledge of students in the field of Logistics and Supply Chain Management, conferences are scheduled with experienced professionals.

Effective personal study (25 non-teaching hours)

Based on the estimated average time required for preparation of theoretical tests.

Assessment (1 teaching hour)

The expected duration of the theoretical assessment test is 1 hour, unless you choose the global test in which case, the total duration of the test is 5h.

5.3.Program

Theme 1. Introduction to logistics and supply chain management.

Theme 2. Supply chain coordination.

Theme 3. Design and optimization of the logistics network.

Theme 4. Analytical methodologies for inventory management.

Theme 5. Warehouse logistics.

Theme 6. Transportation and distribution.

Theme 7. Risk management in the supply chain.

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Theme 8. Information systems for the logistics network.

5.4.Planning and scheduling

Sessions calendar and defense of works

At the beginning of the course and depending on the academic calendar and the schedule determined by the Center, students will be informed about all program, workshops, seminars and laboratory sessions.

5.5.Bibliography and recommended resources

- Chopra S. and Meindl P. Administración De La Cadena De Suministro - 5ª Edición. Ed Pearson, 2013.
- Anaya Tejero J.J. Logística integral: La gestión operativa de la empresa. Ed. ESIC, 2011.
- Ballou R.H. Logística. Ed. Pearson, 2011.
- Christopher M. Logistics and Supply Chain Management. Strategies for Reducing Cost and Improving Service. Prentice Hall, London, 1998.
- Vollmann T., Berry W., Whybark D.C. and Jacobs F.R., "Planeación y control de la producción, Administración de la cadena de suministros", McGraw Hill, 2005.