

30129 - Logistics

Syllabus Information

Academic Year: 2019/20

Subject: 30129 - Logistics

Faculty / School: 175 - Escuela Universitaria Politécnica de La Almunia

Degree: 425 - Bachelor's Degree in Industrial Organisational Engineering

ECTS: 6.0

Year: 3

Semester: First semester

Subject Type: Compulsory

Module: ---

1.General information

1.1.Aims of the course

The subject and its expected results respond to the following approaches and objectives:

The degree in Industrial Organization Engineering provides a technological-business training widely accepted in the European and international environment. It enables the graduate to manage and direct industrial and service companies in all their functional areas.

The fundamental objective is to make known the bases of the function of the company in charge of the delivery of the products to the clients, when these demand it, in the agreed place and time, in the best possible conditions.

1.2.Context and importance of this course in the degree

Logistics is one of the areas of business decision that in recent years have received greater attention from the point of view of management oriented to the international competitiveness of companies.

1.3.Recommendations to take this course

This subject does not have any normative prerequisite nor does it require specific complementary knowledge. However, for a better understanding of the subject, it is desirable that the student has acquired the competences and knowledge corresponding to the following subjects:

- Estadística
- Investigación Operativa.
- Fundamentos de Administración de Empresas
- Organización y Dirección de Empresa

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

4.Methodology, learning tasks, syllabus and resources

4.1.Methodological overview

Presentation general methodology

The learning process designed for this subject is based on the following:

Strong interaction between the teacher/student. This interaction is brought into being through a division of work and responsibilities between the students and the teacher. Nevertheless, it must be taken into account that, to a certain degree, students can set their learning pace based on their own needs and availability, following the guidelines set by the teacher.

The current subject Logistics is conceived as a stand-alone combination of contents, yet organized into three fundamental and complementary forms, which are: the theoretical concepts of each teaching unit, the solving of problems or resolution of questions and laboratory work, at the same time supported by other activities

The organization of teaching will be carried out using the following steps:

- **Lectures:** Theoretical activities carried out mainly through exposition by the teacher, where the theoretical supports of the subject are displayed, highlighting the fundamental, structuring them into topics and or sections, interrelating them.
- **Practice Sessions:** The teacher resolves practical problems or cases for demonstrative purposes. This type of teaching complements the theory shown in the lectures with practical aspects.
- **Laboratory Workshop:** The lecture group is divided up into various groups, according to the number of registered students, but never with more than 20 students, in order to make up smaller sized groups.
- **Individual Tutorials:** Those carried out giving individual, personalized attention with a teacher from the department. Said tutorials may be in person or online.

4.2.Learning tasks

Programmed learning activities

The programme offered to the student to help them achieve their target results is made up of the following activities:

It involves the active participation of the student, in a way that the results achieved in the learning process are developed, not taking away from those already set out, the activities are the following:

- **Face-to-face generic activities:**

Lectures: The theoretical concepts of the subject are explained and illustrative examples are developed as a support to the theory when necessary.

Practice Sessions: Problems and practical cases are carried out, complementary to the theoretical concepts studied.

Laboratory Workshop: This work is tutored by a teacher, in groups of no more than 20 students.

- **Generic non-class activities:**

Study and understanding of the theory taught in the lectures.

Understanding and assimilation of the problems and practical cases solved in the practical classes.

Preparation of seminars, solutions to proposed problems, etc.

Preparation of laboratory workshops, preparation of summaries and reports.

Preparation of the written tests for continuous assessment and final exams.

The subject has 6 ECTS credits, which represents 150 hours of student work in the subject during the trimester, in other words, 10 hours per week for 15 weeks of class.

A summary of a weekly timetable guide can be seen in the following table. These figures are obtained from the subject file in the Accreditation Report of the degree, taking into account the level of experimentation considered for the said subject is moderate.

Activity	Weekly school hours
Lectures	3
Laboratory Workshop	1
Other Activities	6

Nevertheless, the previous table can be shown in greater detail, taking into account the following overall distribution:

- 50 hours of lectures, with 60% theoretical demonstration and 40% solving type problems.
- 10 hours of laboratory workshop, in 1 or 2-hour sessions.
- 6 hours of written assessment tests, one hour per test.
- 84 hours of personal study, divided up over the 15 weeks of the 2nd semester.

There is a tutorial calendar-timetable set by the teacher that can be requested by the students who want a tutorial.

4.3.Syllabus

The course will address the following topics:

-Topic 0: Introduction to management of the supply chain

-Topic I: Procurements Logistics.

- ABC classification
- Evaluation Provider.

-Topic II: Logistics Storage

- Warehouses configuration.
- Management and control system.
- Inventory management.
- Handling and order processing.

-Topic III: Distribution Logistics

- Nodes of a distribution network
- Transportation
- Routs and Fleets management

-Topic IV: Reverse Logistics logistics processes.

- Logistics reverse models.

-Topic V: Systems capture and transmission of information.

- Identification systems
- Encodings and symbology
- Smartcards for traceability
- Systems capture and transmission of information.

4.4.Course planning and calendar

In a generic way the calendar of the course is as follows:

Topics	Week
block 0: Introduction to management of the supply chain	1,2
block I: Procurements Logistics.	3,4
block II: Logistics Storage	5,6,7,8
block III: Distribution Logistics	9,10,11,12
block IV: Reverse Logistics logistics processes.	13
block V: Systems capture and transmission of information.	14,15

The weekly schedule of the subject will be published at <http://www.eupla.unizar.es/asuntos-academicos/calendario-y-horarios>

The dates of the global evaluation test (**official calls**) will be published at <http://www.eupla.unizar.es/asuntos-academicos/examenes>

The written assessment tests will be related to the following topics:

? **Test 1:** Topic 1, 2 & 3.

? **Test 2:** Topic 3 (bis), 4 & 5.

4.5.Bibliography and recommended resources

http://biblos.unizar.es/br/br_citas.php?codigo=30129&year=2019