

## 30129 - Logistics

### Syllabus Information

**Academic year:** 2023/24

**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

Logistics is one of the areas of business decision making that in recent years has received greater attention from the point of view of management oriented to the international competitiveness of companies. This subject prepares the graduate for the management and direction of industrial and service companies in the functional area of logistics.

Alignment with the SDGs These approaches and objectives are aligned with the following Sustainable Development Goals (SDGs) of the United Nations 2030 Agenda (<https://www.un.org/sustainabledevelopment/es/>), so that the acquisition of the learning results of the subject provides training and competence to contribute to some extent to their achievement.

Goal 9. Industry, Innovation and Infrastructure.

Goal 12. Responsible Production and Consumption

### 2. Learning results

The student should be able to:

- Know the different areas of the Supply Chain and their interrelationships.
- Identify key decisions in the purchasing and procurement process.
- Organize the purchasing and procurement function of the company.
- Know how to apply supplier evaluation techniques.
- Classify the company's products by their importance for logistics management.
- Distinguish the most suitable type of warehouse for each company according to its logistic process.
- Identify the storage, handling and manipulation systems required in different logistic situations.
- Organize the basic principles of inventory management to optimize material purchasing decisions.
- Plan the distribution of a company's materials among its different production and logistics centers.
- Apply analysis techniques to manage delivery routes.
- Understand the different processes involved in reverse logistics.
- Organize reverse logistics processes between the company's production and logistics centers.
- Know how to apply identification systems in different processes.
- Identify the technologies necessary to perform the traceability of materials in the company's logistics cycle.

### 3. Syllabus

Topic 1. Introduction to the supply chain

Topic 2. Procurement needs and supplier management

Topic 3. Storage Types and Design. Handling and handling systems Inventory management.

Topic 4. Warehouse operations. Order preparation

Topic 5. Distribution Planning Route Management Fleet Management

Topic 6. International transactions

Topic 7. Optimization of logistics networks

Topic 8. Reverse Logistics Reverse Logistics Processes. Reverse Logistics Management Models

Topic 9. Information capture and transmission systems. Traceability

### 4. Academic activities

The time distribution of the activities will be as follows:

**Lectures**, combining theoretical exposition with the resolution of examples that help to better understand the theory (30 hours).

**Practical classes** with problems, exercises and case presentations. (30 hours).

**Tutored autonomous activities**. Group activities led by the teacher, with delivery of report and oral presentation if applicable. (32 hours).

**Work and personal study**. (52 hours).

Assessment tests: (6 hours).

## 5. Assessment system

### Continuous Assessment

**Supervised work**: Both the presentation and the solution adopted will be evaluated. The arithmetic average of the papers will contribute 30% to the final grade of the subject.

Written tests: They will be carried out in order to have a more individualized evaluation tool for the learning results. There will be two tests that will include theoretical and practical questions. It will contribute 70% to the final grade.

### Global final assessment.

The student must opt for this modality when the continuous assessment is not passed. In this case the assessment of the learning results will be carried out by means of a single exam that will contain all the material dealt with throughout the term, which will be divided into two thematic blocks. If a block has been passed in a continuous assessment, it will be respected, and it will not be necessary to take it unless the grade wants to be improved. Collaborative assignments must be submitted and approved by the professor and evaluated in the same way as in the continuous assessment.