

## 30171 - Logistics

### Syllabus Information

**Academic year:** 2023/24

**Subject:** 30171 - Logistics

**Faculty / School:** 179 - Centro Universitario de la Defensa - Zaragoza

**Degree:** 563 - Bachelor's Degree in Industrial Organisational Engineering

**ECTS:** 4.5

**Year:** 3

**Semester:** First semester

**Subject type:** Compulsory

**Module:**

### 1. General information

The objective of this subject is for the student to acquire a global vision of logistics management in organizations starting from the concept of supply chain management. From the knowledge of the logistic implications of different activities of the organization, the student will deepen in each of the traditional fields of logistics: procurement, warehousing, distribution and reverse logistics. For each of them, the student will be able to critically analyse different logistics strategies and will be able to apply the basic tools commonly used for their design and management.

These approaches and objectives are aligned with Sustainable Development Goals (SDGs) 9, 11 and 12. of the United Nations Agenda 2030 (<https://www.un.org/sustainabledevelopment/es/>), in such a way that the acquisition of the learning results of the subject provides training and knowledge, skills and competencies to contribute to some extent to their achievement."

### 2. Learning results

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

### 3. Syllabus

- Thematic block 1: Introduction
- Thematic block 2: Inventory management
- Thematic block 3: Storage
- Thematic block 4: Distribution
- Thematic block 5: Demand forecast
- Thematic block 6: Procurement

- Thematic block 7: Reverse logistics
- Thematic block 8: Information capture and transmission systems

## 4. Academic activities

### 1. Face-to-face activities: (45 hours)

- Theoretical classes: The theoretical concepts of the subject will be explained and practical examples will be developed.(31 hours)
- Tutored group work and cases: Students will develop examples and carry out problems or case studies in groups related to the theoretical concepts studied. Upon their completion, the student will submit a report on the same. Oral presentation of the work to the rest of their classmates may also be required. (9 hours)
- Evaluation (5 hours)

2. **Tutored autonomous activities:** They will be focused on group work/projects. (9 hours)

3. **Study and personal work**

4. **Tutorials**

## 5. Assessment system

### FIRST CALL

#### Continuous assessment

##### 1. Theoretical-practical tests (65% of the total)

- It will consist of 2 tests (32.5% each) with theoretical-practical questions and problems.
- In order to pass the subject, the average of the two tests must be equal to or higher than 5.

##### 2. Directed work (35% of the total)

- Several small group assignments will be proposed throughout the term and may be required to be presented orally.
- The completion of a pre-assignment may be required with a maximum weight of 25% of the grade of the work.
- The grade for each assignment will take into account the accuracy of the results, the quality of the explanations, the creativity contributed by the students, as well as the formal quality of the reports and the compliance with the deadlines.
- A minimum final grade of 5 out of 10 will be required for each of the assignments.

#### Global test:

- Students who do not pass the subject by continuous evaluation or who would like to improve their grade, will have the right to take the overall test set in the academic calendar, prevailing, in any case, the best of the grades obtained. It will consist of a written test and the delivery of the directed work.

### SECOND CALL

#### Global test:

- Students who do not pass the subject in the first call may sit for this global exam.

It will consist of a written test and the delivery of the directed work.

In the global tests, in order to pass the subject, an average grade equal to or higher than 5 must be obtained.

#### INSTRUMENTS vs. LEARNING RESULTS (RA)

Instrument	%	RA01	RA02	RA03	RA04	RA05	RA06	RA07	RA08	RA09	RA10	RA11	RA12	RA13	RA14
Theoretical-practical tests	60	X	X	X					X			X	X	X	X
Multiple choice and open ended					X	X			X		X				

questions															
Problems															
Tutored works	35						X	X		X	X				