

Academic Year/course: 2021/22

## 27340 - Logistics and Supply Chain

### Syllabus Information

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**Academic Year:** 2021/22

**Subject:** 27340 - Logistics and Supply Chain

**Faculty / School:** 109 - Facultad de Economía y Empresa

301 - Facultad de Ciencias Sociales y Humanas

**Degree:** 448 - Degree in Business Administration and Management

454 - Degree in Business Administration and Management

**ECTS:** 5.0

**Year:** 4

**Semester:** First semester

**Subject Type:** Optional

**Module:**

## 1. General information

### 1.1. Aims of the course

Logistics and Supply Chain is a specific course focused on the different supply decisions of the company. This course is taught as an optional training subject within the first semester of the fourth year of the Degree in Business Administration and Management. The subject has, therefore, a quarterly character and a total teaching load of 5 ECTS credits. Its objective is to introduce the logistics processes and decisions related to the company's supply chain, with special emphasis on their strategic management in uncertain environments.

"These approaches and objectives are aligned with the Sustainable Development Goals (SDGs) of the 2030 agenda and certain specific goals (<https://www.un.org/sustainabledevelopment/en/>), contributing to some extent to their achievement:

Goal 1: End poverty \*\*

Goal 1.a: Ensure a significant mobilization of resources from various sources, ?? .., aimed at ending poverty in all its dimensions.

Goal 2: Zero Hunger \*\*

Goal 2.1 End hunger and ensure access for all people, ??????, To healthy, nutritious and sufficient food throughout the year

Goal 2.2 End all forms of malnutrition ?????

Goal 4: Quality Education

Goal 4.3 Ensure equal access for all men and women to quality technical, professional and higher education ??

Goal 4.4 Significantly increase the number of young people and adults who have the necessary skills, ..., to access employment, decent work and entrepreneurship

Goal 4.7 Ensure that all students acquire the theoretical and practical knowledge necessary to promote sustainable development ...

Goal 8: Decent work and growth

Goal 8.5 Achieve full and productive employment and decent work for all women and men, including youth ...

Goal 11: Sustainable cities and communities

Goal 11.6 Reduce the negative environmental impact per capita of cities?.,

Goal 12: Responsible production and consumption

Goal 12.6: Encourage companies, especially large companies and transnational companies, to adopt sustainable practices?.

Goal 12.8: Ensure that people around the world have the relevant information and knowledge for sustainable development?.

Goal 13: Climate action

Target 13.3: Improve education, awareness and human and institutional capacity regarding climate change mitigation, adaptation, reduction of its effects and early warning.

Goal 17: Partnerships to achieve the Goals \*\*

Target 17.17: Encourage and promote the establishment of effective alliances in the public, public-private and civil society spheres, drawing on the experience and resource-raising strategies of alliances.

\*\* These objectives and targets are addressed through the Solidarity Logistics practice that follows the Service-Learning methodology, and is carried out in collaboration with the Teruel Food Bank.

## 1.2. Context and importance of this course in the degree

The specific character of the subject is reinforced by the previous level of the students taking it, since all of them have studied (and it is recommended that they have passed) the subject of Production Management, as well as other subjects related to the different functional areas of the company (specifically Human Resources Management, Financial Management and Marketing). In addition, students interested in logistics are recommended to also take the subjects of International Business Management, Innovation and Technological Change of Business, Integrated Management and Value Creation and Environmental Management to complete their training on topics that directly affect to the internal and external logistics of the company, and Operational Research as a fundamental subject to develop the basic concepts of logistics transport.

## 1.3. Recommendations to take this course

Students interested in Logistics and Supply Chain are also recommended to take Operations Research as a complementary subject to develop the basic concepts of logistics transport and to take care of acquiring communication skills in other languages, especially English. In addition, students interested in Logistics and Supply Chain are recommended to also take the subjects of International Business Management, Innovation and Technological Change of the Company, Integrated Management and Value Creation and Environmental Management to complete their training in topics that They directly affect the internal and external logistics of the company.

## 2. Learning goals

### 2.1. Competences

#### **Specific competences:**

- E1. Direct, manage and administer companies and organizations.
- E2. Know the operation of the logistics process and the supply chain of a company or organization and carry out with ease any management work entrusted to it.
- E3. Issue advisory reports on specific situations related to the logistics process and the supply chain in markets, sectors, organizations and companies.
- E4. Understand and apply professional criteria and scientific rigor to the resolution of economic, business and organizational problems in the logistics and supply chain process.

#### **Cross-cutting competences:**

- T1. Capacity to solve problems.
- T2. Organizational and planning skills.
- T3. Ability to analyze and search for information from various sources.
- T4. Ability to make decisions.
- T5. Motivation for quality and excellence.
- T6. Adaptability to new situations.
- T7. Ability to apply knowledge in practice.

### 2.2. Learning goals

- 1. Know and understand the basic concepts that make up the logistics and supply chain areas.
- 2. Analyze the role of transportation and technology in the logistics system.
- 3. Know, analyze and propose evaluated solutions to mitigate the effects of uncertainty on the supply chain.
- 4. Know and value strategies to improve inventory management in the supply chain.
- 5. Understand, evaluate and develop tools to manage inventories in a situation of uncertainty.
- 6. Understand, evaluate and develop the strategies that a company with reactive capacity can face in the face of uncertainty.
- 7. Know, evaluate and value the pros and cons of subcontracting as a solution to the uncertainty of the company.
- 8. Delve into new trends in logistics processes.

### 2.3. Importance of learning goals

The learning results of this subject are basic for the development of activities in the area of business production and logistics, which are present in all companies. The tasks of general management, production control, purchasing and storage require the knowledge explained in this agenda

## 3. Assessment (1st and 2nd call)

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

The student must demonstrate that they have achieved the learning results through the following assessment activities:

**On the first call**, students will have the option to pass the course by taking a continuous assessment or a global assessment.

The continuous evaluation of the subject will be carried out by adding the grades obtained in the following activities:

1. Resolution of questions and problems formulated in class. (2 points)\*:

2. Group work:

2.1. Preparation of a group work on a specific topic of logistics or supply chain activity, which may be both theoretical and applied (3 points)

3. Individual test:

3.1. Specific exam for students who are doing continuous assessment, in which the student will have to answer a series of questions to develop of a theoretical-practical nature

where the knowledge and assimilation of the theoretical concepts must be demonstrated, complementing the answers with the application of the practical aspects seen in the cases, readings and examples. (4 points)

4. Special activities

4.1. Visits to companies, talks, conferences, oral presentation of work, etc. (1 point)

\* In the Faculty of Social and Human Sciences of Teruel, these two points will be achieved through the activities carried out in the logistics development of the food bank collection program, which will be managed and evaluated following the Learning and Service methodology through of the following activities:

1. \* Service-Learning Activities

1. \* Initial report and participation in the Solidarity Logistics of the Food Bank of Teruel, in which the planning of the logistics activity to be carried out is developed. (needs assessment, resource planning, optimization of assignments, etc.) (1 point)

2. \* Final report, consisting of the analysis and evaluation of the results obtained in the activity (1 point).

It is necessary for the student to obtain a minimum score of 4 points out of 10 on the exam in order to add the rest of the marks. If not, the student's final grade will be the one obtained in the global exam.

Any founded suspicion of fraud in the works delivered to the teacher (copy of other classmates, internet copy or copy of papers presented in other subjects), will be considered sufficient reason for the student to be expelled from the continuous evaluation.

## Overall evaluation

For those students who do not wish to carry out continuous assessment, who have not passed it or who wish to improve their grade, there is also the possibility of taking a global assessment, consisting of an exam that will contain short questions of knowledge and understanding of the theory seen in class. and exercises and / or case studies that demonstrate their ability to apply the theory studied to practice. This exam will represent 100% of the final grade and it is necessary for the student to obtain a minimum grade of 5 points out of 10 to pass the course.

**In the second call**, the evaluation will be carried out through a global test that will have the same structure as that described in the first call.

*"It is planned that these tests will be carried out in person, but if the health circumstances require it, they will be carried out semi-on-site or online. In the case of online assessment, it is important to highlight that, in any test, the student may be recorded, being able to exercise their rights by the procedure indicated in:*

*[https://protecciondatos.unizar.es/sites/protecciondatos.unizar.es/files/users/lopd/gdocencia\\_reducida.pdf](https://protecciondatos.unizar.es/sites/protecciondatos.unizar.es/files/users/lopd/gdocencia_reducida.pdf) ?*

*The necessary software will be used to check the originality of the activities carried out. The detection of plagiarism or copying in an activity will imply the qualification of 0 points in it ?.*

## 4. Methodology, learning tasks, syllabus and resources

### 4.1. Methodological overview

The selection of teaching and learning activities and tasks for Logistics and Supply Chain aims to be varied enough to help students develop all the specific and cross competences required to pass the subject.

### 4.2. Learning tasks

This course is organized as follows:

1. Theoretical classes: use will be made, fundamentally, of the participatory master class to present the basic contents of the subject and to debate the decisions of the game.
2. Practical classes: they allow putting into practice the knowledge acquired in the theoretical classes and developing transversal competences such as the ability to organize and plan or the ability to analyze and search for information from various sources. The development of practical classes will be based on the resolution of exercises and practical cases provided by the teacher.
3. Problem-based learning, seminars, talks, conferences, tutorials and personal work of the student: they allow a more direct and personalized support to the students to explain doubts about the contents of the subject, guide them in the study and put them in touch with reality work practice in logistics companies. In this section, in the Faculty of Social and Human Sciences of Teruel the Service-Learning methodology will be followed.

*?In principle, the teaching delivery methodology is expected to pivot around face-to-face classes. However, if necessary for health reasons, the face-to-face classes may be taught semi-face-to-face or online ?.*

The training activities will correspond to the program presented in section 4.3 as expressed in the following table: Training and assessment activities

<b>Distribution</b>	<b>Hours</b>	
Theoretical classes	2 hour weekly sessions	25
Practical classes	2 hour weekly sessions (P2)	25
Problem Based Learning / Tutoring / Personal Student Work		75
<b>TOTAL</b>	<b>5 ECTS</b>	<b>125 hours</b>

### 4.3. Syllabus

**Unit 1: Introduction to logistics and supply chain. Provisioning management and storage systems**

**Unit 2: Information and technology flows in the supply chain.**

**Unit 3: Transport in the logistics process.**

**Unit 4: Forecasts**

**Unit 5: Uncertainty in the Supply Chain. Solutions**

**Unit 6: Consolidated distribution and aggregation strategies and control of logistics processes**

**Unit 7: Current issues. Reverse logistics, green logistics and circular economy**

### 4.4. Course planning and calendar

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course, will be provided on the first day of class or please refer to the reprography service, Moodle website (<https://moddle2.unizar.es>); Academic calendar website (<https://academico.unizar.es/calendario-academico/calendario>); or the website of your corresponding faculty ( Zaragoza: <https://econz.unizar.es/>, Huesca: <http://fegp.unizar.es/>, Teruel: <http://fcsch.unizar.es/>).