

## **Syllabus Information**

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**Academic Year:** 2022/23

**Subject:** 30176 -

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

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

**ECTS:** 4.5

**Year:** 3

**Semester:** Second semester

**Subject Type:** Compulsory

**Module:**

## **1. General information**

### **1.1. Aims of the course**

The main aim of this subjects is to provide students theoretical and practical knowledge about organization and operation of the Spanish Army in terms of personnel and materials logistic across different areas of application: internal and operational logistic.

Content of the subject Logistic Applied to Defense will have an eminently practical approach with a descriptive study of the current status. It should allow the student to acquire tools and knowledge necessary to allow him to keep this knowledge updated.

Specialization in Defence: These approaches and objectives are in the line with the following Sustainable Development Goals (SDGs) of the United Nations 2030 Agenda (<https://www.un.org.sustainabledevelopment/>), in such a way that the acquisition of the course learning outcomes provides training and competence to contribute to their achievement to some degree.

5. Gender equality.

9. Industry, Innovation and Infrastructure.

10. Reduce Inequalities.

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

Logistics is an essential capability in the proper functioning of Armed Forces of any country. It is so relevant and complex that a high percentage of the armies personnel devote their work to these tasks. In fact, armies have been precursors of many of the advances in this field along history.

Therefore, the interest of this subject for the degree of Industrial Organization Engineering is undeniable. Even more if it fits for the Defense profile that the future officers study on Centro Universitario de la Defensa.

### **1.3. Recommendations to take this course**

To face this subject is necessary to have knowledge about basic principles of material management. This knowledge can be acquired in the subject **Logística (perfil Defensa)**.

## **2. Learning goals**

### **2.1. Competences**

Among all competences expected of the graduates of this degree, students will have developed the following during this subject:

#### *Generic Competences*

- C02 - Ability to plan, budget, organise, manage and monitor tasks, people and resources.
- C04 - Ability to solve problems and take decisions with initiative, creativity and critical reasoning.
- C05 - Ability to apply Information and Communication Technologies (ICTs) within the field of engineering.
- C06 - Ability to communicate knowledge and skills in Spanish.

- C08 - Ability to analyse and evaluate the social and ecological impact of technical solutions, behaving ethically, with professional responsibility and social commitment, always striving for quality and continuous improvement.
- C09 - Ability to work in a multidisciplinary group and in a multilingual setting.
- C10 - Ability to manage information; skills to handle and apply technical specifications and the necessary legislation to practice.
- C11 - Ability to continue learning and develop self-learning strategies.

#### *Specific Competences*

- C29 - Knowledge and capacities to design, manage and organize productive and logistic systems in a business.

## 2.2. Learning goals

Curriculum of the degree in Industrial Organization Engineering presents as required knowledge for this subject:

- Define the doctrinal framework and the legislation of the internal logistics in the Spanish Ground Forces, a
- Define the doctrinal framework of the Operational Logistics. Applying logistic procedure that affect small u
- Define basic notions about security in national territory in the field of the Spanish Ground Forces.

## 2.3. Importance of learning goals

These results are fundamental professional skills that have special relevant at defense profile. Due to logistic will have a great influence on students` daily work, they must know and dominate concepts presented in this subject.

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

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

### First call

#### Continuous assessment:

**The theoretical-practical continuous assessment tests must be passed with a minimum average grade of 5 out of 10.**

**1. Follow-up of the student's continued work (10% of the final grade).** Throughout the course the student will have up to 4 short written tests.

**2. Theoretical-Practical tests of continuous evaluation (60% of the final grade).** They will contain a part of evaluation of fundamental knowledge that the student must possess, as well as a part of practical application, with cases as close to reality as the student can find in his stage of Section and Company Chief. 2 will be made.

**3. Directed work (30% of the final mark).** They will contain practical cases to solve both individually or in groups.

### Final overall test

Students who do not pass the subject by continuous assessment or who would like to improve their grade, will have the right to take a Global Test set in the academic calendar, prevailing, in any case, the best of the grades.

It will consist of a **theoretical-practical test** of the contents of the subject and the possibility of improving the **directed works** delivered during the course. The theoretical-practical test will account for 70% of the grade and must be graded with a minimum grade of 5 out of 10 in order to pass the subject. The works will have a weight of 30% in the final grade.

### **Second call**

Students who do not pass the subject in the first call may take a Global Test set in the academic calendar for the second call.

It will consist of a **theoretical-practical test** of the contents of the subject and the possibility of improving the **directed works** delivered during the course. The theoretical-practical test will account for 70% of the grade and must be graded with a minimum grade of 5 out of 10 to pass the subject. The works will have a weight of 30% in the final mark.

# 4. Methodology, learning tasks, syllabus and resources

## 4.1. Methodological overview

The approach, methodology and assessment of this course is prepared to be equivalent in any teaching scenario. It will be adjusted to the socio-sanitary conditions of each moment, as well as to the indications given by the competent authorities.

The methodology of the course is based on promoting the active learning of the student, applying the theoretical contents in the different activities.

Lectures allow the transmission of knowledge to the students, promoting the participation of them, in which, case studies will be resolved as well as theory will be taught without having an explicit separation between them.

In the practical sessions, based on cases and workgroups, students should internalize the concepts explained in the lectures and aware both of the difficulties involved in logistic tasks and their impact on any company or organization.

Finally, in expert lectures, students will learn the actual implementation of the theoretical contents of the subject.

## 4.2. Learning tasks

The course includes the following learning tasks:

1. Classroom learning activities:
  1. Theory session: 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.
  2. Expert lectures.
2. Study and personal work: continued by students from the beginning of the course.
3. Assessment tasks.

Teachers of the subject make public to the students the program with the specific dates of the activities through the Moodle platform that can be consulted by logging with their username and password at the address <http://moodle.unizar.es>.

## 4.3. Syllabus

The course will address the following topics:

- Historic evolution of logistics. Definition, classification, and overview of logistics. Logistic Functions and Logistic Services. Logistic elements of organizational structures of the ET and MINISDEF and their functional relationships. Echelons of the logistics systems in the functional structure of ET.
- Management of material resources in homeland logistics. The Logistics Cycle. General regulations and procedures for a Head of Sc. y Cia. Logistics functions of: Supply, Maintenance, Movement and Transport, Construction and Administration. Possibilities and capabilities of material resource management tools.
- Human resources management. Homeland Logistics. Military Career legislation. General regulations and application for a Head of Sc. y Cia. of logistics functions: Personal and Healthcare. Possibilities and capabilities of human resources management tools.
- Logistic Support combat function. Organization, deployment and logistical proceedings for small units in the different military operations.

## 4.4. Course planning and calendar

Calendar of the sessions is available on the web site of the institution. The submission of papers is notified to the students either during the development of the class itself, or through the Moodle platform: <http://moodle.unizar.es>.

Final exam dates will be published officially on: <http://tud.unizar.es/calendarios>.

Methodologies that are going to be used are the following:

? Lectures.

? Practice session:

- Case method: in certain topics, the application of the case method is interesting. The teacher will propose a real problem that students must solve in small groups, with previous individual work and make a report with the results obtained that they will defend in a group before the teacher.

? Tutorials, both individual and in groups. The last one is of special interest in the possible cases proposed.

? Flexible web training tools:

- General information of the subjects: data of the professors, program of the subjects, evaluation criteria, calendar of the subject, etc.
- Basic contents: notes or presentations used in class, updated.

The main methodology is the participatory theory session that allows the student to advance along with the contents of the subject. In addition, the special characteristics of the University Defense Center mean that the groups are small (20-30 students) and that attendance is mandatory. In the theoretical classes will be sought that the student is active, for it in the course of the theoretical classes will raise questions and examples related to the subject treated that will help the understanding of the concepts by the student.

The practical cases are the second fundamental pillar of the didactic methodologies used. It will try that the student can solve by himself or in group problems on the subjects approached in the classes of theory with the guide of the professor. Finally, we will try to organize specific talks on some theoretical issues taught by professionals of recognized prestige.

## 4.5. Bibliography and recommended resources

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=30176>