

SUBJECT TEACHING GUIDE

617 - Logistics

Master's Degree in civil Engineering, Canal and Port Engineering

Academic year 2023-2024

| 1. IDENTIFYING DATA | | | | | | | | | | |
|----------------------------------|--|------------------|----|---------------|------------------|--------------|--|--|--|--|
| Degree | Master's Degree in civil Engineering, Canal and Port Engineering | | | Type and Year | Optional. Year 1 | | | | | |
| Faculty | School of civil Engineering | | | | | | | | | |
| Discipline | CROSS CURRICULAR EDUCATION | | | | | | | | | |
| Course unit title and code | 617 - Logistics | | | | | | | | | |
| Number of ECTS credits allocated | 3 | Term Semeste | | er based (2) | | | | | | |
| Web | | | | | | | | | | |
| Language of instruction | Spanish | English Friendly | No | Mode of | delivery | Face-to-face | | | | |

| Department | DPTO. TRANSPORTES Y TECNOLOGIA DE PROYECTOS Y PROCESOS | | |
|------------------|--|--|--|
| Name of lecturer | JOSE MARIA DIAZ PEREZ DE LA LASTRA | | |
| | | | |
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| Other lecturers | | | |

3.1 LEARNING OUTCOMES

- -- Know the basic foundations of the freight transport system, as well as the concept of logistics and its implications
- Master the fundamental principles of the supply and physical distribution system, and their application to the civil Engineering



4. OBJECTIVES

- To deepen the comprehension of logistics as an element of competitiveness in the business environment and in civil engineering in particular.
- To deepen the knowledge of supply, production and distribution strategies with a current focus on company-market relationship
- Knowledge of the problems of the management and location of storage activities and introduce the problem of distribution network design

| 6. COL | 6. COURSE ORGANIZATION | | | | | |
|----------|--|--|--|--|--|--|
| CONTENTS | | | | | | |
| 1 | FOUNDATIONS OF LOGISTICS The current environment of the company. Guidelines of market. The logistics system. Logistics as a source of competitiveness. | | | | | |
| 2 | LOGISTICS AND PRODUCTION MANAGEMENT. Just in Time. Inventory management. Interactions with supply and distribution systems. | | | | | |
| 3 | THE PURCHASING SYSTEM. The importance of purchases in logistics planning. Decisions on purchases. Search of suppliers. Supplier evaluation and homologation. Negotiation in purchases. | | | | | |
| 4 | THE PHYSICAL DISTRIBUTION SYSTEM Physical distribution organization. The concept of total cost. the effect of physical distribution on business organization. Level of service. Introduction to the routing problem. | | | | | |
| 5 | STORAGE ACTIVITY Storage policies. Warehousing and Logistics planning. Number and location. Location of warehousing activities. | | | | | |

| 7. ASSESSMENT METHODS AND CRITERIA | | | | | | | | |
|--|--------|--------|----|-----------|-------|--|--|--|
| Description | Туре | Туре | | Reassessn | % | | | |
| Work | Work | | No | Yes | 50,00 | | | |
| Exercises and case studies | Others | | No | Yes | 20,00 | | | |
| Face-to-face activity in the classroom | Others | Others | | No | 30,00 | | | |
| TOTAL 10 | | | | | | | | |

Observations

In case of a new health alarm by COVID-19 and if the guidelines of the health and educational authorities do not allow face-to-face evaluation in the classroom, a remote evaluation system will be adopted

Observations for part-time students

Part-time students will have to do the Work, the practical exercises and case studies. They will also take a written exam with a weight in the final grade of 30%.

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

- Apuntes de la Asignatura
- Ballou, R.H. 1991. Logística empresarial. Ed. Díaz de Santos.
- Ballou, R.H. 2004. Logística. Administración de la cadena de suministro. Ed. Pearson, Prentice Hall.
- O'Grady, P.J. 1992. Just-in-Time. Mc Graw Hill. Madrid.





