

SUBJECT TEACHING GUIDE

M2154 - Logistics

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

Academic year 2022-2023

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	M2154 - Logistics									
Number of ECTS credits allocated	3	Term Semest		ter 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		
E-mail	josemaria.diaz@unican.es		
Office	E.T.S. de Ingenieros de Caminos, Canales y Puertos. Planta: + 1. DESPACHO (1007)		
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 1								

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.





