

Course Unit	Logistics			Field of study	Manangement	
Bachelor in	Industrial Management and Engineering			School	School of Technology and Management	
Academic Year	2022/2023	Year of study	3	Level	1-3	ECTS credits 6.0
Туре	Semestral	Semester	1	Code	9104-754-3104-00-22	
Workload (hours)	162	Contact hours				E - OT - O -
			T - Lectures; TP - Lectures a	nd problem-solving; PL - Problem-	solving, project or laboratory; TC	- Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s) Carla Alexandra Soares Geraldes

Learning outcomes and competences

- At the end of the course unit the learner is expected to be able to:

 1. define logistics and supply chain management (SCM) and outline how both terms differ from each other;

 2. identify how best practice logistics and supply chain management can yield both cost reduction and value addition;

 3. define the terms integration and collaboration in de SCM context;

 4. define the role of warehousing in contemporary supply chains;

 5. explain storage and materials handling processes within warehouses;

 6. examine warehouse operating and service procedures;

 7. understand the cost structures and operating characteristics of the different transport modes.

Prerequisites

Before the course unit the learner is expected to be able to: Not applicable.

Course contents

Logistics: evolution and concepts. Supply chain management: integrated planning. Supply chain design. Warehouse management. Transport planning and management.

Course contents (extended version)

- 1. Logistics
- Logistics
 Evolution and definition of logistics and supply chain
 Importance of logistics / supply chain
 Supply chain management
 Integrated planning
 Supply chain strategies
 Customer service logistic product
 Purchasing process

- Customer service logistic product
 Purchasing process
 Logistics performance cycles
 Measuring and managing logistics performances
 3. Supply chain design
- Supply chain design
 Strategic planning
 Supply chain designs: postponement, speculation
 Warehouse management
 Warehouses

 - Warehouse operations planning
 Storage and handling systems
 Operational policies
 Operational costs
- Performance measures
 Transport planning and management
 Importance of an effective transportation system
 Characteristics of the different transport modes
 - Transport service selection: decision factors

Recommended reading

- Geraldes, C. A. S. , Notas de Apoio, 2022 Crespo de Carvalho, J. M. , Logística e Gestão da Cadeia de Abastecimento, Edições Silabo, 2020.

- Ballou, R. H., Business Logistics/Supply Chain Management, Prentice-Hall, 2004.
 Bramel, J., Simchi-levi, D., The logic of logistics, Springer.
 Christopher, M., Logistics and Supply Chain Management: strategies for reducing costs and improving services, Pitman Publishing, 2002.

Teaching and learning methods

To encourage student learning and support the achievement of the programme outcomes the theoretical part of the course is taught primarily by lectures supported by classes and tutorials. Some case studies are also used.

Assessment methods

- Continuous assessment (Regular, Student Worker) (Final)
 Case Studies 60% (Three case studies will be analysed (in the classroom).)
 Intermediate Written Test 40% (To be held in January.)
 Final assessment (Regular, Student Worker) (Final, Supplementary, Special)
 Final Written Exam 100%

Language of instruction

Portuguese, with additional English support for foreign students.

Electronic validation

Carla Alexandra Soares Geraldes

Maria Clara Rodrigues Bento Vaz
Fernandes

António Jorge da Silva Trindade Duarte
Paulo Alexandre Vara Alves
130-09-2022

07-10-2022

11-10-2022

05-11-2022