

Course Unit	ourse Unit International Operations and Logistics			Field of study	Management		
Bachelor in	International Business Management			School	School of Technology and Management		
Academic Year	2023/2024	Year of study	2	Level	1-2	ECTS credits	6.0
Туре	Semestral	Semester	1	Code	8487-711-2106-00-23		
Workload (hours)	162	Contact hours		50 PL - T	C - S - solving, project or laboratory; TC -	E - OT Fieldwork; S - Seminar; E - Place	10 O -

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:

- . define logistics and supply chain management (SCM) and outline how both terms differ from each other identify how to plan, organize and control the logistics activities for successful SCM in any organization
- 3
- set the level of the logistics activities so as to make products and services available to customers at the time, place, and in the condition and form desired, in the most cost-effective manner
- most cost-effective manner
  4. identify inventory reduction strategies
  5. define the role of warehousing in contemporary supply chains. Examine warehouse operating and service procedures. Explain storage and materials handling processes within warehouses
  6. understand the cost structures and operating characteristics of the different transport modes
  7. understand and identify the bundle of decisions involved in the strategic and integrated planning of international logistic systems
  8. identify the factors which affect the logistic strategic planning and to know which is its trend in different markets

# Prerequisites

Before the course unit the learner is expected to be able to: demonstrate knowledge in Statistics

# Course contents

Logistics: evolution and concepts. Logistics/supply chain strategy. Supply chain management: integrated planning and Supply chain design. Warehouse management. Inventory management. Transport planning and management.

# Course contents (extended version)

1. Logistics

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- Evolution and definition of logistics and supply chain
   Importance of logistics / supply chain
   Supply chain Management
   Supply chain strategy
- Supply chain strategy
  Integrated planning
  Customer service logistic product
  Supply chain designs: postponement, consolidation and standardization
  Distribution channels
  The logistics/supply chain product and the logistics/supply chain customer service
  Impact of product characteristics on supply chain
  Impact of Logistics/supply chain customer service on supply chain
  Warehouse functions
  Warehouse onerations planning

  - Warehouse operations planning
     Storage and handling systems
- Storage and handling systems
  Operational policies
  Operational costs
  Performance measures
  Inventory management
  Costs relevant to inventory management
  Inventory control methods: Reorder Point Control and Periodic Review Control
  Single and joint ordering
  Purchasing and supply scheduling decisions
  Transport planning and management
  Importance of an effective transportation system
  Characteristics of the different transport modes
  Transport service selection: decision factors

  - Transport service selection: decision factors
- Transport costs
   Transport costs
   Vehicle routing and scheduling methods at tactical and operational levels
   Costs relationships and trade-off analysis
   Facility location decisions

#### Recommended reading

- Ballou, R. H. (2004). Business Logistics/Supply Chain Management (5th Edition), Prentice-Hall International, Inc.
   Ghiani, G. , Laporte, G. , Musmanno, R. (2004). Introduction to Logistics Systems Planning and Control, John Wiley & Sons, Ltd.
   Rushton, A. , Croucher, P. , Baker, P. (2017) ; The Handbook of Logistics and Distribution Management (6th Edition); Kogan Page Ltd.

# Teaching and learning methods

To encourage student learning and facilitate the achievement of the programme outcomes the course is taught primarily by theoretical-pratical lectures supported by cases studies and solving pratical exercices

Assessment	methods
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- Evaluation I (Regular, Student Worker) (Final)

   Practical Work 20% (Preparation, presentation and discussion of practical work (in the classroom).)
   Intermediate Written Test 40% (Multiple-choice midterm exam.)
   Final Written Exam 40% (To be held at the end of the semester.)

   Evaluation II (Regular, Student Worker) (Final, Supplementary, Special)

   Final Written Exam 100%

- Language of instruction

English

Electronic validation						
Carla Alexandra Soares Geraldes	José Mário Escudeiro de Aguiar	Nuno Filipe Lopes Moutinho	José Carlos Rufino Amaro			
05-10-2023	07-10-2023	09-10-2023	10-10-2023			