

Course Unit International Operations and Logistics			Field of study	Management				
Bachelor in	r 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			C - S -	E - OT 10 O -		
Name(s) of lecturer(s	s) Carla Alexan	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.
- 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)

- 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

 3. 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

 4. Warehouse management
 Warehouses functions
 Warehouse poreptions planning

- - Warehouse operations planning
 Storage and handling systems

- Storage and handling systems
 Operational policies
 Operational costs
 Performance measures
 Inventory management
 The role of inventory management
 Osts 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
 Transport costs
 Teaching and scheduling methods at tactical and operational levels
 Logistics network planning
 Costs relationships and trade-off analysis
 Facility location decisions

Recommended reading

- 1. Ballou, R. H. (2004). Business Logistics/Supply Chain Management (5th Edition), Prentice-Hall International, Inc. 2. Ghiani, G. , Laporte, G. , Musmanno, R. (2004). Introduction to Logistics Systems Planning and Control, John Wiley & Sons, Ltd. 3. 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

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Assessment methods

- 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				
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05-10-2023	07-10-2023	09-10-2023	10-10-2023	