



UNIVERSIDADE LUSÍADA
LISBOA

Course Unit Program
Supply Chain Management

Academic Year 2026/2027

1. Organic Unit

Faculty of Business and Economic Sciences

2. Course

Business Management

3. Cycle

1st

4. Course Unit

Supply Chain Management (24115)

5. Scientific Area

6. Curricular Year

2nd

7. Type of Curricular Unit / Semester

1st Semester



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8. Class type and workload (work time)

Theoretical classes:

Practical classes:

Theoretical-Practical Classes 30,00

Tutorial Guidance: 20,00

9. ECTS Credits

6,00

10. Scientific Area Coordinator

11. Regent

Prof. Doutora LUCILA KARMALUK PENA

12. Assistants

13. Teaching Language

Portuguese

14. General Objectives

It is intended that students have fundamental knowledge about the supply chain, understood as the set of processes that ensure the delivery of goods and services to the final customer. This curricular unit aims to develop the ability to analyze and make strategic decisions in supply chain management, recognizing its impact on the characteristics and success of the business.

15. Specific Objectives

- 1) Understand the fundamental principles of the supply chain and its strategic role in creating value for the final customer.
- 2) Analyze stock management models.
- 3) Evaluate transportation and distribution options based on efficiency, cost, time, and sustainability criteria.
- 4) Identify and manage risks, proposing solutions to mitigate supply chain failures.
- 5) Integrate sustainable and ethical practices into supply chain management.

16. Skills to be acquired

- Map out, evaluate and optimize processes throughout the supply chain.
- Make strategic decisions, considering trade-offs between costs, service levels, time, and sustainability.
- Manage interorganizational relationships with suppliers, distributors, and customers, promoting collaboration and integration.
- Integrate sustainable and ethical practices into logistics and supply chain management.



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17. Teaching Methodology

The teaching methodologies include lectures supported by audiovisual materials, case-study discussions and simulation games.

18. Course Unit Program

1. Logistics
2. Supply Chain
Collaboration and techniques (VMI, CPFR, QR, ECR, JIT, Lean), Outsourcing, Mass Customization, Postponement, Bullwhip Effect, Information Flow and Performance Measurement
3. Customer Service
4. Demand Cycle and Order Cycle
5. Supplier Selection and Evaluation
6. Warehousing
Location, layout and sizing
Picking and Cross-Docking
7. Inventory Management
ABC Classification
EOQ Models and Q Model
8. Transportation Management
Modes, selection criteria and combined transport
9. Digitalization and Emerging Technologies in the Supply Chain
AI and Machine Learning (demand forecasting, optimization)
IoT and RFID (real-time monitoring)
Blockchain (end-to-end traceability and visibility)
10. Logistics System Management
Logistics system design
Supply Chain Risk Management and Resilience Supply Chain
11. Sustainable Supply Chain Management
Sustainability benchmarks and frameworks
Circular economy and green logistics
12. Case Studies

19. Assessment Methods

The Regulations for the Assessment of Knowledge and Skills currently in force will apply. Continuous assessment must include oral contributions distributed throughout the teaching period and a final written test, and may also include a group assignment and an intermediate written test, as defined in the corresponding Continuous Assessment Plan.

20. Didactic Resources

- Material presented in class.
- Recommended bibliography.
- Supply Chain Management articles.
- Operations Management articles.



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21. Sustainability Objectives

Aligned with the following sustainable development goals:

- 1) SDG 9 Industry, innovation and infrastructure - Encourages the development of efficient and sustainable production chains.
- 2) SDG 12 Responsible consumption and production - Encourages the discussion of sustainable practices in the chain.
- 3) SDG 13 Climate action - Encourages the optimization of transport routes and modes.
- 4) SDG 8 Decent work and economic growth - Analysis of working conditions in different links in the chain.

22. Keywords

Supply chain management
Inventory Management.
Transport management.
Logistics.



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23. Main Bibliography

Author(s): José Crespo de Carvalho (coord.)
Title: Logística e Gestão da Cadeia de Abastecimento
Edition: 3.^a Year: 2020
Local: Lisboa
Publisher: Edições Sílabo
ISBN Code: 978-989-561-085-3

Author(s): Chopra, Sunil
Title: Supply Chain Management: Strategy, Planning and Operation
Edition: 7.^a Year: 2020
Local: Harlow
Publisher: Pearson Education
ISBN Code: 978-1-292-25789-1

Author(s): Krajewski, Lee J. & Malhotra, Manoj
Title: Operations Management: Processes and Supply Chains
Edition: 14.^a Year: 2024
Local: --
Publisher: Pearson Education
ISBN Code: 9781292462974

24. Complementary Bibliography

Author(s): Simchi-Levi, David; Kaminsky, Philip & Simchi-Levi Edith
Title: Designing and Managing the Supply Chain: Concepts, Strategies and Case Studies
Edition: 4.^a Year: 2021
Local: --
Publisher: McGraw-Hill
ISBN Code: 9781259997815

Author(s):
Title:
Edition: Year:
Local: --
Publisher:
ISBN Code:



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Ficha técnica MIP / MIP Datasheet	
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Autor / Author	Prof. Doutora LUCILA KARMALUK PENA
Classificação / Classification	-
Descritores / Descriptors	-
Colaborador(es) / Colaborator(s)	-
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