

Storage, transportation and distribution in turbulent situations

Master's degree in: Supply Chain Management

Subject: Supply chain planning

Credits: 6 ECTS

Program: Master in Supply Chain Management

Modality: On-campus Full-Time

Semester: First

Type: Mandatory

Language of instruction: English

Academic year: 2025/2026

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1. Presentation

The course "Storage, Transportation, and Distribution in Turbulent Situations" addresses the challenges and strategies for efficiently managing logistics processes in environments characterized by uncertainty and volatility. In a globalized and ever-changing context, companies face turbulent situations that demand agile and effective logistics management. This course focuses on providing students with the tools and knowledge necessary to understand, plan, and execute logistics operations under adverse conditions.

The course covers the importance of strategic storage in turbulent situations, emphasizing the relevance of having flexible inventory systems that are resilient to demand and supply variability. It also examines the implications of transportation in turbulent environments, including the management of alternative routes, adaptation to unforeseen changes, and the mitigation of logistical risks.

In addition, the course delves into the efficient distribution of products in turbulent contexts, considering supply chain management strategies, handling unpredictable demand, and resilient distribution systems. Students will explore practical cases and real-world scenarios to understand how organizations face and overcome logistics challenges in turbulent situations.

The course provides students with a comprehensive understanding of the logistical challenges in changing environments, as well as the strategies and tools to effectively manage storage, transportation, and distribution in adverse situations.

2. Program's learning outcomes

The subject-related learning outcomes are distributed as follows:

2.1. Knowledge

- RAT 1 The graduate will be able to describe correctly complex supply chains and their adaptation to the organization's needs for permanent change.
- RAT 2 The graduate will be able to assertively identify developments in information technology applied to supply chain management.

2.2. Skills

- RAT 7 The graduate will be able to provide clear and precise explanations of any knowledge/information, both orally and in writing, in Catalan, Spanish and a third language, particularly English.
- RAT 8 The graduate will be able to apply digital technologies (at the right time) in their field of expertise.
- RAT 11 The graduate will be able to apply in an efficient way the keys of e-Commerce to the area of operations and logistics in a multi-channel environment.
- RAT 12 The graduate will be able to adequately coordinate individual and team efforts and skills for the correct development and fulfilment of operational objectives.
- RAT 13 The graduate will be able to recruit a human resources team in the projects under their responsibility, adequate to the expected results projection.
- RAT 14 The graduate will be able to develop the strategic vision necessary to visualize the supply chain and the different factors that interact in it.
- RAT 15 The graduate will be able to assertively interpret the complementary concepts of planning and execution in a practical and efficient manner.

2.3. Competences

- RAT 17 The graduate will be able to come up with innovative, creative and entrepreneurial solutions in professional situations.
- RAT 18 The graduate will be able to evaluate the sustainability and social impact of the proposals presented, with ethical, environmental and professional responsibility.
- RAT 19 The graduate will be able to apply the gender perspective in the professional tasks.
- RAT 20 The graduate will be able to correctly design new supply chain projects that meet business objectives.
- RAT 21 The graduate will be able to restructure in an efficient way the teams of the company's functional departments involved in the supply chain.
- RAT 24 The graduate will be able to create in an effective way business models on the basis of the company's supply channel global strategy.

3. Subject's learning outcomes

The subject-based learning outcomes for this course are as follows:

- RAM 5 The graduate will efficiently design the strategy for incorporating new technologies into the company's procurement processes, through the presentation of an activity report for a fictitious company.
- RAM 6 The graduate will be able to effectively manage the order and procurement cycle for the company by utilizing various technological tools for supply management.

4. Contents

- **Topic 1: Distribution Centers**
 - Types
 - Design
 - Flow management
 - Quality, service, and efficiency
- **Topic 2: Supply Management**
 - Goods handling
 - Warehouse Management Systems (WMS)
 - Reverse logistics
 - Cross-docking
- **Topic 3: Design and Operational Management of Transportation**
 - Transportation network design
 - Selection of transport modes
 - Route planning
 - Fleet and transportation operations management
- **Topic 4: Relationship and Operations Management with External Companies**
 - 3PL and 4PL logistics operators
 - Business models and offered services
 - Managing relationships with logistics operators
 - Information systems and technologies
 - Risk management and compliance
- **Topic 5: Supply Chain Internationalization**
 - Planning and controlling international logistics risks
 - Incoterms 2020
 - Insurance management
 - Goods transportation

Presentations	
Block 2: Participation and Oral Presentations	20 %
Block 3: Final Evaluation Test	40 %

Block 1 will consist of:

- Two individual evaluable activities. 10% each.
- Two group projects or reports. 10% each.

Block 2 will consist of:

- Participation and oral presentations – 20%.

Block 3 will consist of:

- An exam - 40%.

The final grade for the course will be obtained by weighting the three blocks. The minimum weighted grade required to pass is 5.0.

If the student fails Block 1 or Block 3 (or both) with a grade lower than 5.0, they may retake that block or blocks. This grade will average with the other blocks, and the maximum final grade the student can receive is 5.0.

If the student is unable to attend the initial evaluation, and can provide a justified reason (see regulations of the University of Lleida), they may take the exam on the date set for recovery.

Students who do not attend evaluative activities with a weight exceeding 50% will receive a general course grade of "Not presented."

Alternative Evaluation

The single evaluation consists of a single exam that accounts for 100% of the course. The exam, and therefore the course, is passed with a grade of 5 out of 10 in this final test. If a grade lower than 5.0 is obtained, the student has the right to a recovery exam.

To opt for the single evaluation, it is necessary to send a written request to the coordination during the first 15 business days of the course. The procedure to follow to opt for this single evaluation is established in the specific rules of EAE.

Plagiarism is a fraudulent activity that can lead to severe penalties, both academic and legal. Academic honesty is one of the pillars of the educational commitment of the School, and the members of its teaching community are especially aware and prepared to detect such actions. Given the difficulty often involved in conceptualizing plagiarism, it has been deemed appropriate to clearly define its content and scope in these regulations and policies.

Plagiarism is understood as the appropriation of works or other people's work by passing them off as one's own; that is, without explicitly crediting their origin. Plagiarism can consist of the unauthorized total or partial copying of someone else's work, or presenting the copy as an original work, impersonating the true author. Some examples of plagiarism are:

- Submitting someone else's work as if it were your own, regardless of whether the copy is total or partial.
- Paraphrasing a text by rephrasing it with other words, but making small changes in the language to disguise it and without citing sources.
- Buying or obtaining a work and presenting it as one's own.
- Relying on an idea or phrase from another person to write a new paper without citing the author of the work.

As established in Article 10 of the Academic Code of Conduct for Students at EAE Barcelona, without prejudice to the academic sanctions resulting from its application, the Academic Commission will promote the legal actions that correspond in case plagiarism could violate applicable regulations regarding intellectual property.

7. Bibliography

- ICC (2006). "UCP 600: Uniform Customs and Practice for Documentary Credits." Publicación n.º 600 de la Cámara de Comercio Internacional (International Chamber of Commerce, ICC).
- ICC (2013). "ISBP: International Standard Banking Practice." Publicación n.º 745 de la Cámara de Comercio Internacional (International Chamber of Commerce, ICC).
- ICC (2018). "ICC Guide to Export/Import: Global Standards for International Trade." Publicación n.º 709 de la Cámara de Comercio Internacional (International Chamber of Commerce, ICC).
- ICC (2019). "Incoterms 2020: ICC Rules for the Use of Domestic and International Trade Terms." Publicación n.º 723 de la Cámara de Comercio Internacional (International Chamber of Commerce, ICC).