
Logistics and International Supply Chain Management

Professor: José Miguel Aliaga

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Office hours: by appointment

Course Type: Compulsory

Credits: 3 ECTS

Term: 2nd Term

Course Description

Students will become familiar with logistics and supply chain which include all the activities required to move product and information to, from, and between members of a supply chain. The supply chain provides the framework for businesses and their suppliers to jointly deliver goods, services and information efficiently, effectively, relevantly and in a sustainable manner to customer. Supply Chain Management presents the mission, business processes, and strategies needed to achieve integrated logistical management.

Objectives

Specifically, the course objectives are to:

- Reach and comprehensive understanding of what Logistics & SCM are and its relationship with business and strategy.
- Know critical parameters of SCM networks to define it based on company strategy and what effects have on business the decisions taken by SCM managers.
- Improve customer value through SCM definition and management.
- Understand effects of information and alliances into SCM outputs.

Learning Outcomes

- Make decisions that allow you to manage an international logistics chain efficiently
- Choose the most suitable means of transport for each situation
- Know the main elements of international transport
- Understand the logistical implications of the different INCOTERMS
- Define international sales contracts
- Define international brokerage contracts.
- Resolve the main disputes that may be generated by basic international trade operations.

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- Differentiate the types of customs regimes.
- Solve all the administrative processes of customs management necessary to develop international trade.

Competences

BASIC COMPETENCES

CB7. That students know how to apply the acquired knowledge and their ability to solve problems in new or little-known environments within broader (or multidisciplinary) contexts related to their area of study.

CB10. That students possess the learning skills that allow them to continue studying in a way that will be largely self-directed or autonomous.

GENERAL COMPETENCES

Instrumental skills

G1. Search, analysis, evaluation and synthesis of information. Managing the information acquired from its analysis, its assessment and the synthesis of that information.

G2. Relate concepts, knowledge and tools from different areas.

G3. Communicate orally and in writing in English

Personal generic competencies

G4. Leadership and management capacity of multicultural, interdisciplinary, competitive, changing and complex groups.

Systemic generic competencies

G7. Understand an organization with a global perspective.

G8. Implement initiatives and changes within an organization.

Competencies for applicability

G10. Make the knowledge and skills acquired effective in an advanced way.

G11. Apply quantitative criteria and qualitative aspects in decision making.

G13. Organize and manage time efficiently in the development of tasks

SPECIFIC COMPETENCES

E4. Analyse, synthesize and interpret the data and master its application in the analysis of the business potential of a country.

E9. Analyse in depth the sector, competition, market, consumer, and distribution of each preselected country.

E11. Design the international logistics network to support internationalization

E16. Master and resolve the legal-administrative procedures and procedures required in the internationalization process.

E17. Recognize and apply financial information, systems, and models to develop international financial operations.

Methodology

The methodology proposed is based on relevant theoretical material with a selection of applied cases and exercises to practice theory. These ones will be doing either in the class or in groups at home. Some reading material and audiovisual material will be distributed before some sessions. Students are expected to read the assigned materials before coming to class.

There is no textbook for this course. Instead, in the bibliography there is a variety of suggested reference books to review, detail and enhance concepts developed during the course.

The competences, the learning outcomes, the assessment elements and the quality of the learning process included in this Teaching Plan will not be affected if during the academic trimester the teaching model has to switch either to an hybrid model (combination of face-to-face and on-line sessions) or to a complete on-line model.

Evaluation criteria

The following elements will be evaluated and weighed to form the final grade of the course:

- Class Activities (10%)
- Individual Work (10%)
- Group Work (35%)
- In-class Presentations* and Debate (15%)
- Final Exam (30%)

* Group SCM plan is the part about logistics and SCM according to your business plan. This must be done in the same groups you are developing your business plan. Ideally the plan should

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consider the elements seen during the course and typically you should develop and quantify the supply chain network needed for your business plan. Depending on every business idea, every SCM plan will be slightly different focusing more on transportation, production facilities, warehouses or strategic alliances. **Students groups must talk with professor to explain their business plan idea to focus the SCM plan in their Master Thesis.** A short presentation to the rest of the students about your SCM plan demonstrating concepts developed during this course will be required on last class. The contents developed in the presentation will have to be further developed in the Master Thesis.

Students need to obtain a **minimum of 4 in the final exam** to pass the course. This condition applies to both the regular exam and the retake exam. The final course grade of students that do not obtain a minimum of 4 in the exam will be the minimum between 4 and the final grade computed from the different evaluation elements (with the weights set above).

Students that fail the evaluation of the course will have a retake exam opportunity that will be programmed in accordance with the academic calendar. If a student has to retake the exam, his **maximal grade for the course will be a 5.**

Students are required to attend 80% of classes. Failing to do so without justified reason will imply a Zero grade in the participation/attendance evaluation item and may lead to suspension from the program

Students who fail the course during the regular evaluation are allowed ONE re-take of the evaluation, in the conditions specified above. If the course is again failed after the retake, the student will have to register again for the course the following year.

In case of a justified no-show to an exam, the student must inform the corresponding faculty member and the director(s) of the program so that they study the possibility of rescheduling the exam (one possibility being during the "Retake" period). In the meantime, the student will get an "incomplete", which will be replaced by the actual grade after the final exam is taken. The "incomplete" will not be reflected on the student's Academic Transcript.

Plagiarism is to use another's work and to present it as one's own without acknowledging the sources in the correct way. All essays, reports or projects handed in by a student must be original work completed by the student. By enrolling at any UPF BSM Master of Science and signing the "Honor Code," students acknowledge that they understand the schools' policy on plagiarism and certify that all course assignments will be their own work, except where indicated by correct referencing. Failing to do so may result in automatic expulsion from the program."

Calendar and Contents

| Session | Date | Contents |
|---------|--------------------------|--|
| #1 | January 14th, Friday | The Role and Functions of Logistics & Supply Chain Management. |
| #2 | January 21th, Friday | Analysis of the Design of Supply Chain. |
| #3 | January 28th, Friday | Inventory Management Systems. |
| #4 | February 4th, Friday | Global Value Chains. |
| #5 | February 11th, Friday | Location of Manufacturing. |
| #6 | February 18th, Friday | Networks Transportation and Costs. |
| #7 | February 25th, Friday | Freight Distribution Systems. |
| #8 | March 4th, Friday | Maritime Transportation and Ports. |
| #9 | March 11th, Friday | Intermodal Transportation and the Container. |
| #10 | March 18th, Friday | Presentations of Group Supply Chain Management Plan for Master Thesis. |

Reading Materials/ Bibliography/Resources

F.R. Jacobs, R.B. Chase, 2018, "Operations and Supply Chain Management, 14th ed., McGraw-Hill.

L.V. Snyder Z.-J.M. Shen, 2019, "Fundamentals of Supply Chain Theory", 2nd Edition, John Wiley & Sons. DOI:10.1002/9781119584445

Ghiani G., Laporte G. & Musmanno R. (2013) "Introduction to Logistics Systems Management", Wiley (e-book)

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Bio of Professor

Adjunct professor at ESCI-UPF.

PhD in International Trade (Candidate) from the Polytechnical University of Barcelona (UPC). José Miguel Aliaga holds a bachelor's in political sciences from the Autonomous University of Barcelona and has a Master in Supply Chain Management from the UPC. He has held decision-making positions in a number of international companies, working in the areas of purchasing, global operations, logistics and customs management. As an international consultant, he has focused his expertise on the aeronautics, textile, food and logistics industries. His fields of interest include companies' export/import behavior and the economic impacts of special economic zones (SEZ).