
LOGISTICS & SUPPLY CHAIN MANAGEMENT

Professor: José Miguel Aliaga

Office hours: by appointment

Course Type: Elective

Credits: 4

Term: 3rd.

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.

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.

Evaluation criteria

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

- Class Participation (10%)
- Individual Work (25%)
- Group Work (35%)
- Final Exam (30%)

To pass the course the student must have an overall final grade of 5 or higher (out of 10) as well as on each of the following activities: class participation, individual work, group work and final exam.

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

The course will focus on latest and most important issues faced by the Logistics & Supply Chain Management area, as well as the basic tools and techniques used in the area. Some topics to be discussed include (to be confirm later on):

Session	Contents
#01	The Role and Functions of Logistics & Supply Chain Management
#02	Analysis of the Design of Supply Chain based on shareholder and stakeholder insights
#03	Strategies for designing efficient, effective, agile, robust & resilience supply chains
#04	Analysis of the application of lean and agile concepts to different industries
#05	Location of Manufacturing
#06	Freight Distribution Systems
#07	Intermodal transportation
#08	Logistics, Supply Chain Management and E-Commerce
#09	Logistics, Supply Chain Management and Artificial Intelligence
#10	Logistics, Supply Chain Management and Sustainability

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)

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 economics and 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).

Annex: Specific competences

SC3. Solve managerial problems through the use of analytical and research techniques.

SC4. Acquire the skills for the design and implementation of problem-solving models, based on insights from the social sciences.

SC7. To integrate relevant and current scientific research to generate insights in support of business practice.

SC8. Apply the techniques and theories acquired in the Master's Degree to solve problems relevant to the business world.