# Logistics and supply chain management

## Prof. Luca Lanini

***COURSE AIMS AND INTENDED LEARNING OUTCOMES***

The course aims to illustrate the features and the opportunities of the supply chain management in the economic system, taking as a point of reference the paradigm of sustainability and the minimisation of the environmental impact. The analysis will be focused on the management of the production, trade, and distribution of goods, allowing to highlight the development of outsourced logistics and the strategic role played by third-party logistics providers. The course will be based on the methodological approach of the ‘supply chain management’ and the (commercial and logistic) distribution channels, where the company is placed in a system of upstream and downstream productive, commercial, and distributive relationships. Therefore, it will be focused on the study of the customer/supplier relationships, the commercial and the logistic network (distribution channels), the actors’ strategies, and the techniques for the optimisation and management of flows, both physical (goods) and related to information (ICT). Finally, according to an approach based on ‘case studies’, the course will introduce some success stories and organisational models of excellence (this will include at least a study visit in a company).

At the end of the course, students will be able to:

* Interpret the reorganisation processes that are taking place in the economic systems in the light of the upstream and downstream relationships between customers and suppliers;
* Carry out a synergistic analysis of the relationships between the different steps of the production, marketing, and distribution of goods;
* Properly approach business economics, marketing, and international economics courses;
* Assess the effects of *supply chain* management on the environments and identify green logistics solutions.

***COURSE CONTENT***

1. Foundations of logistics, Supply Chain Management, and ‘green logistics’: concepts, definitions, evolution, and the methodology for the analysis of SCM and logistics, the management of physical and information flows (ICT), the internationalisation and localisation processes, in relation to the competitive scenarios;
2. Marketing channels: nature and channel relationships, the forms of distribution, marketing management, the nature and the evolution of the contractual relationship between customers and suppliers (vertical relationships);
3. Logistic channels: the physical structure of the supply network, logistic platforms and warehouses, stock management, the analysis of the logistic management of industrial and commercial enterprises (with a focus on the modern large-scale distribution);
4. Green logistics: the environmental impact of the different types of transport; transport and sustainable mobility (new fuels, electric transport systems); the green impact on packaging; the urban logistics of goods and e-commerce; reverse logistics the logistics related to returns; recycling, reusing, waste management, *filiere di riciclo* (recycling industries), electronic waste
5. The new global challenges to logistics between the New Green Deal and geopolitical changes
6. Case studies: presentation of some success stories of effective and sustainable management of the supply chain and logistics, through a focus on some important Italian enterprises in the field of production, trade, and logistics.

***READING LIST***

Coursepacks and articles selected by the lecturer, that will be made available on Blackboard.

Textbooks of reference:

* F. Dallari, Corso di logistica e trasporti, Hoepli, 2015.
* S. Cavalieri-R.Pinto, Orientare al Successo la Supply Chain, 2nd ed, Isedi, 2015.
* ECR – GS1 Italy, Logistica sostenibile: soluzioni e casi virtuosi dal largo consumo, September 2018 (downloadable from the website [www.gs1it.org](http://www.gs1it.org)

***TEACHING METHOD***

Frontal lectures, supported by the use of a projector (Word, Excel, Power Point files).

The course will also include the meeting with managers for a total of four hours of teaching.

In addition, during the course, some case studies will be presented in class.

There will be no computer-based/practical activities.

***ASSESSMENT METHOD AND CRITERIA***

Written final exam lasting 90 minutes, with 15 open-ended questions, each of which will award students with 2 points, for a total of 30 points.

***NOTES AND PREREQUISITES***

The study and analysis of the topics included in the course content will be based only on some parts of the textbooks mentioned above, that will be specified during classes.

Prerequisites: students are expected to attend the economics and marketing courses included in their degree programme that take place before the beginning of this course.

For further information, students are invited to check the lecturer’s webpage on the University website.

Information on office hours available on the teacher's personal page at http://docenti.unicatt.it/.