# Operations & Supply Chain

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

This course aims to illustrate how industrial companies must design and manage procurement processes, production scheduling and inventory management and physical distribution of goods.

At the end of the course the student will be able to:

* master the notions and theoretical reference models necessary to understand the functioning of the production and logistics processes of industrial companies;
* use the knowledge acquired to understand how these processes can contribute to consolidating and strengthening the company’s competitive model, knowing how to propose appropriate improvement actions in a plurality of industrial contexts;
* will be able to analyze complex problems inherent in the organization of the main supply chain management processes, identifying and (where possible) acquiring relevant information for the purpose of correctly framing the problem; furthermore, will be able to propose one or more practicable solutions for the reorganization and improvement of the activities of purchase, production and physical distribution of goods; finally, they will be able to formulate judgments and evaluations useful for selecting the solution deemed most appropriate and feasible, also focusing on the ethical implications recognizable in the problem being investigated;
* will be able to present and clearly communicate their assessments to specialist and non-specialist interlocutors, using appropriate terminology and logically and consequentially articulating the arguments in support of their positions;
* will be able to progress in Operations and Supply Chain Management studies independently, through individual study as well as through professional practice.

***COURSE CONTENT***

The course is divided into the following modules:

– Operations & Supply Chain Management: Strategies and Performances

– Distribution Logistics

– Logistics Outsourcing

– Inventory Management

– Production Planning

– Procurement Management

***READING LIST***

Students enrolled in the course will be able to access teaching material made available by the lecturers on the Blackboard platform.

Students interested in further information can purchase the following booklet:

* Grando A., *Operations and Supply Chain*, EGEA, Milan, 2021

The additional contents of the handout will not be part of the exams.

***TEACHING METHOD***

The course uses blended teaching and alternates in-class lectures with online activities.

Students are expected to study the topics covered during the online video-lectures and the additional study material.

Participation in the webinars (practical) and in the feedback sessions is key for learning purposes.

The teaching method will be both teoreical and active. The approach will include analysis and discussion of case studies, diagnosis and solution of case problems, debate with professionals involved in the management of complex supply chain and operational contexts, simulations and role play.

***ASSESSENT METHOD AND CRITERIA***

1. ***Ongoing Assessment***

For students who opt for an ongoing assessment, it is expected that: 50% of the assessment is carried out through two tests (a classroom test and a group assignment) administered during the course, according to contents and timing that will be published in the Blackboard area reserved for students enrolled in the course; 50% of the assessment is carried out through a final written test, which consists of theoretical questions and mini-cases. The final written test can be taken in only one of the three sessions following the end of the course.

1. ***Comprehensive Assessment***

For students who intend to opt for a comprehensive assessment, the exam is divided into a written test, which consists of two theoretical questions and two mini-cases.

***NOTES AND PREREQUISITES***

*Operations & Supply Chain* content includes a level of in-depth analysis typical of a Master's degree course.

A basic knowledge of corporate strategy is required. Students who may not have such preliminary knowledge will have to acquire it through individual study so that they can effectively follow the course.

If you have not followed the *Corporate Strategy and Policy* course, we suggest reading the following text:

R. Grant, *L’analisi strategica per le decisioni aziendali*, Il Mulino.