# Operations & Supply Chain

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

This course aims to illustrate how industrial companies should design and manage procurement processes, production planning, inventory management and the physical distribution of goods will be illustrated.

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

* master the notions and theoretical models of reference needed to understand the functioning of the productive and logistic processes of industrial companies;
* use their acquired knowledge to understand how these processes can contribute to the consolidation and strengthening of the competitive business model, knowing how to propose appropriate improvement actions in a multitude of industrial contexts;
* analyse complex problems inherent to the organisation of the main supply chain management processes, identifying and (where possible) acquiring the relevant information to correctly frame the problem; propose one or more viable solutions for reorganising and improving the purchase, production and physical distribution of goods; and formulate judgments and assessments useful in selecting the solution deemed most suitable and feasible, focusing also on the ethical implications that may emerge in the problem being studied;
* clearly display and communicate their assessments to specialist and non-specialist interlocutors, using appropriate terminology and articulating the arguments supporting their positions in a logical and consequential manner;
* independently further their studies in Operations and Supply Chain Management, 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 Performance
* Production scheduling
* Supplies management
* Stock management
* Distribution Logistics
* Logistics Outsourcing

***READING LIST***

All teaching materials (slides, cases, exercises) uploaded to Blackboard will be considered compulsory.

Students interested in further insights can purchase the following course pack:

* A. Grando, *Operations and Supply Chain*, EGEA, Milano, 2022.

The additional contents of the course will not be asked during the exam.

***TEACHING METHOD***

This blended course includes face-to-face activities (50%) and distance activities (50%). The on-site activities are based on interactive lectures for the theoretical contents, and on the discussion of complex cases. Off-site activities include the provision of video-lectures (asynchronous) and the intensive use of tutorials and short case studies discussed via webinars and live feed-backs (synchronous).

***ASSESSMENT METHOD AND CRITERIA***

1. *Progressive ongoing assessment*

For students who opt for a progressive ongoing assessment, it is expected that: 50% of the assessment will be carried out through two tests (a test in class and a group assignment administered during the course), modalities, contents and timing of which will be published on the Blackboard area reserved for students enrolled in the course; 50% of the assessment will be carried out through a final exam consisting on theoretical questions and mini-cases. *Summative single assessment*

For students who wish to opt for a single assessment during the exam session, this will consist of a written exam comprising two theoretical questions and two mini-cases.

***NOTES AND PREREQUISITES***

A basic knowledge of business strategy is required. Students who have not taken the Business Strategy and Policy course are invited to read the following text:

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

Further information can be found on the lecturer's webpage at http://docenti.unicatt.it/web/searchByName.do?language=ENG or on the Faculty notice board.