**Food Supply Chain Management**

Prof. Paolo Bisogni

***LEARNING OUTCOMES***

* **To provide students with an understanding of the principles and practice of selected topics in Logistics and Supply Chain Management.**
* **To provide students with a basic but solid understanding of the principles and practice of Supply Chain strategy development and management.**
* **To provide students with knowledge of the main building blocks of SCM: Supply Chain Design and Inventory planning, Warehousing, Transport and cost control.**

***MODULE CONTENT***

* Introduction to modern Supply Chain concepts. The economic justification of Logistics and Supply Chain Management.
* Managing uncertainty in international supply chains
* Collaboration in the Supply Chain. Manufacturer / Retailer collaboration. Outsourcing options and strategies.
* Fundamentals of aggregate planning.
* Inventory planning systems
* Managing Demand. Demand Planning. Definitions, building blocks, mathematical forecasting tools.
* Managing Supply. Fundamentals of purchasing strategies, global and local purchasing, Vendor management.
* Lean systems in manufacturing and distribution. Relationships between Inventories, Forecasts and Lead Times.
* Warehouse and transportation management basics.
* Current trends in supply chain resilience and sustainability
* Controlling logistics costs.

***READING LIST***

***The following is a short list of classic books and articles on different topics of SCM that are presented in the course***

E.H. Frazelle, *World-Class Warehousing and Material Handling*, McGraw-Hill, 2001.

E.M. Goldratt, *Theory of Constraints*, North River Press, 1990.

M. Christopher, Logistics And Supply Chain Management, Prentice Hall

S. Cohen-J. Roussel, *Strategic Supply Chain Management*, McGraw Hill, 2005.

D.S. Levi-P. Kaminsky-E.S. Levi, *Designing and Managing the Supply Chain: Concepts, Strategies and Case Studies*, McGraw-Hill, 2009.

TOM DAVIS, *Effective Supply Chain Management,* Sloan Management Review, Summer 1993

***TEACHING METHOD***

The course is offers a blend of frontal lessons and team activities like business games and case discussion.

***ASSESSMENT METHOD***

Written exam composed of a set of Multiple Choice Questions (up to 26 points) and two open questions (up to 6 points).

***PREREQUISITES***

No particular prerequisite is necessary to attend this course.

***OFFICE HOURS***

Office and consultations hours will be organized by MS Teams, by appointment, writing to

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