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UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH

EXECUTIVE MASTER IN SUPPLY CHAIN MANAGEMENT AND OPERATIONS MANAGEMENT

SUPPLY CHAIN MANAGEMENT TEACHING GUIDE 2022 - 2023

GENERAL DETAILS

Name of module:	Supply Chain Management
Academic year:	2022 - 2023
Degree:	Executive Master in Supply Chain Management and Operations Management
Number of credits (ECTS):	7
Date of latest revision:	November 2022
Lecturers in charge:	Oriol Pastor Utzet

1. GENERAL DESCRIPTION

This subject consists of a theoretical and practical review of the basic concepts defining and intervening in the supply chain, while providing a general outlook of improvement techniques and support tools for management.

The content is structured in a way to allow students to assimilate the concepts gradually divided into 5 units that will be developed during 6 sessions.

- The first unit will last for three sessions. The unit seeks to dig deeper into the main concepts of the supply chain, including theoretical basic concepts of the supply chain (processes, metrics, roles, functions, and so on) and practical exercises on technical aspects associated to the management of the supply chain (costs, budget, risk analysis).
- The second unit will be developed in one session. In it we will look at concepts in the management of the supply chain that are more complex but essential, allowing students to identify through real cases the different management models of the supply chain and value the barriers and levers that are needed to manage a change of model.
- The third unit will try to show the Lean tools to improve the processes of the supply chain and show the roadmap to be followed in its improvement and implementation.

All sessions seek maximum interaction with the student, so that the contents may adapt in a pragmatic way to each student's professional needs. In as far as possible, practical exercises, debates and talks by professionals from the sector will follow this direction.

2. OBJECTIVES

- Providing students with an integral perspective of the main aspects involved in the management of the supply chain, both from a strategic and an operational angle.

- Linking management of the supply chain to business strategy.
- Making known and teaching supply chain management techniques and tools.
- Showing students the advantages of a supply chain management integral system.
- Understanding the structure of the area budget.
- Making available to students situations, problems and solutions on decision making of supply chain management.
- Provide practical tools to manage and lead teams and people in the supply chain.

3. CONTENTS

UNIT 1. Managing the supply chain

UNIT 2. Diagnosis of the supply chain operational framework

UNIT 3. Supply chain transformation and improvement

UNIT 1. Managing the supply chain

Learning outcome

At the end of the exposition, debate and practical work with this unit's content, students should be able to:

- Identify the processes that make up and interact in the supply chain.
- Link supply chain management to business strategy.
- Understand basic cost structure.
- Identify risks associated to supply chain management.

Contents

1. What is the supply chain?
2. Processes and roles in the supply chain
3. Financial aspects and the cost of serving

UNIT 2. Diagnosis of the supply chain operational framework

Learning outcome

Through the exposition in the classroom and the examples contributed by professionals on the subject, students should be able to:

- Determine the supply chain degree of maturity.
- Identify technical and organisational needs according to the level of integration.
- Get to know and understand the different stages in the development of the organisation.

Contents

1. Diagnosis of the operational framework.
2. Type of integration in the supply chain.
3. Support of computer technologies.

UNIT 3. Supply chain transformation and improvement

Learning outcome

The theoretical content to be exposed and the practical work to be associated to this subject will allow students to:

- Elaborate the overview table of supply chain processes.
- Get to know the techniques to identify opportunities to improve in the supply chain.
- Understand the steps needed to transform the supply chain.

Contents

1. Lean tools applied to the supply chain
2. Elaboration of process maps
3. Steps in the transformation of the supply chain

4. TEACHING AND LEARNING METHODOLOGY

Euncet Business School's experiential learning process brings together a combination of methodologies which, in a practical and innovative way, allow students to acquire skills specific to the professional exit profile that is expected for an executive program.

Lectures will be held on-site, in a combination of theoretical (T) and practical (P) sessions and will be complemented with real examples developed by professionals from the sector (C).

Theoretical sessions will be developed through:

- Exposition of theoretical content by the staff.
- Debate of content among students attending.

Practical sessions may consist in:

- Application of concepts and methodologies to practical examples by students.
- Discussion on real cases in the classroom.

Professionals from the sector will take charge of the talks, and they will offer a pragmatic focus on the subject's theoretical content.

5. ASSESSMENT

The Executive Modular Education programs are based on a competency assessment model, in which the progress of the students in achieving the objectives set out in the study program is assessed. The final qualification for the module will be calculated using the arithmetic mean of the marks received in the different practical cases, exercises and/or presentation of practical work or projects carried out in an individual way or as a group.

The evaluation system for this module aims to guarantee both the understanding of the contents and the student's ability to put them into practice, assessing progress and continued effort. Teaching staff will ensure the assimilation of the contents through the evaluable activities and the tutored project in the classroom.

6. BIBLIOGRAPHY

6.1. BASIC BIBLIOGRAPHY

- Bolstorff, Peter; Rosenbaum, Robert. *Supply chain excellence: a handbook for dramatic improvement using the SCOR Model*. New York: AMACOM, 2011. ISBN 9780814437537.
- Cohen, Shoshanah; Roussel, Joseph. *Strategic supply chain management: the five disciplines for top performance*. New York: McGraw-Hill, 2013. ISBN 9780071813082.
- Dittmann, Paul J. *Supply chain transformation: building and executing an integrated supply chain strategy*. New York: McGraw-Hill, 2012. ISBN 9780071798303.
- Drucker, Peter F. *The essential Drucker: The best of sixty years of Peter Drucker's essential writings on management*. New York: Harper, 2008. ISBN 9780061345012.
- Hugos, Michael. *Essentials of supply chain management*. 4th ed. Hoboken: John Wiley & Sons, 2018. ISBN 9781119461104.
- Kotter, John P. *Leading change*. Boston: Harvard Business School Press, 1996. ISBN 0875847471.

6.2. WEBGRAPHY

- *Council of Supply Chain Management Professionals* [online]. Available at:
<<https://cscmp.org/>>.