

**Docente: Nenni Maria Elena**

**Tipo di incarico: Docente a contratto**

**Titolo del corso: Supply chain management**

**6 CFU**

**Programma**

Questo corso è progettato per fornire agli studenti una comprensione della gestione Supply Chain e della sua applicazione sia nelle organizzazioni manifatturiere sia di servizi.

Al termine di questo corso, gli studenti dovrebbero essere in grado di:

- comprendere il ruolo strategico della gestione della supply chain nella creazione e nel miglioramento dei vantaggi competitivi di un'azienda
- analizzare e comprendere criticamente la struttura, le dinamiche, le relazioni e le politiche organizzative delle moderne Supply Chain.
- comprendere i concetti chiave e le problematiche di SCM in organizzazioni manifatturiere come di servizi
- comprendere l'interdipendenza della funzione Operations con le altre aree funzionali di un'impresa
- applicare competenze analitiche e il problem solving alla risoluzione di problemi tipici di Supply Chain

Di seguito si riporta il programma delle lezioni dettagliato come “diario d’aula” e, dove appropriato, i capitoli del libro di testo in riferimento agli argomenti trattati in ogni lezione.

Lesson number Topic Reference

1. Introduction, definitions and basic concepts (Chapter 1)
2. Creating the supply chain strategy (Chapter 2)
3. Supply Chain Drivers and Metrics (Chapter 3)
4. Supply Relationships, Chains and Networks (Additional readings)
5. Chain structures for different business drivers (Additional readings)
6. Supply Chain network design (Chapter 5)
7. The role of collaboration: the Beer Game simulation (Role game)
8. The role of collaboration: the Beer Game simulation (Role game)
9. Performing short-term planning and scheduling (Chapter 8)
10. Inventory management: Supply chain inventory management Sustainability in Supply Chain (Chapter 11-12)
11. Contemporary strategic issues in Supply Chain Management, such as lean manufacturing, third-party logistics (3PL), customer services and fulfilment, supplier development, cost & performance etc. (Additional readings)
12. The role of Technology: Additive Manufacturing, Big Data, IoT, Machine Learning, Blockchain. What they are and what opportunities they open for the Supply Chain (Additional readings)

**The course programme is the following:**

This course is designed to provide the students with an understanding of Supply Chain Management and its application in both manufacturing and service organizations.

Upon completing this course, students should be able to:

- understand the strategic role of supply chain management in creating and enhancing a firm's competitive advantages
- critically analyze and understand the structure, dynamics, relationships and organizational policies of modern supply chains.
- understand key concepts and issues of SCM in both manufacturing and service organizations
- understand the interdependence of the operations function with the other key functional areas of a firm
- apply analytical skills and problem-solving tools to the analysis of the problems

The course includes front and interactive lessons, exercises and case studies discussions.

Below is the program of detailed lessons as "Classroom Diary" and, where appropriate, the chapters of the text book in reference to the topics covered in each lesson.

Lesson number	Topic	Reference
1.	Introduction, definitions and basic concepts	(Chapter 1)
2.	Creating the supply chain strategy	(Chapter 2)
3.	Supply Chain Drivers and Metrics	(Chapter 3)
4.	Supply Relationships, Chains and Networks	(Additional readings)
5.	Chain structures for different business drivers	(Additional readings)
6.	Supply Chain network design	(Chapter 5)
7.	The role of collaboration: the Beer Game simulation	(Role game)
8.	The role of collaboration: the Beer Game simulation	(Role game)
9.	Performing short-term planning and scheduling	(Chapter 8)
10.	Inventory management: Supply chain inventory management	Sustainability in Supply Chain (Chapter 11-12)
11.	Contemporary strategic issues in Supply Chain Management, such as lean manufacturing, third-party logistics (3PL), customer services and fulfilment, supplier development, cost & performance etc.	(Additional readings)
12.	The role of Technology: Additive Manufacturing, Big Data, IoT, Machine Learning, Blockchain. What they are and what opportunities they open for the Supply Chain	(Additional readings)

### Testi adottati

Chopra, S., Supply Chain Management: Strategy, Planning, and Operation (7th Edition), Pearson (available on Amazon)

### FOR INTERNATIONAL STUDENTS

Chopra, S., Supply Chain Management: Strategy, Planning, and Operation (7th Edition), Pearson (available on Amazon)

### Valutazione

L'esame consisterà in due parti:

- 1) una prova scritta (70% del punteggio complessivo dell'esame)
- 2) sviluppo di lavori di gruppo (30% del punteggio complessivo dell'esame).