

LOGISTICS, SUPPLY CHAIN & MARITIME BUSINESS

35006 - SUPPLY CHAIN & PRODUCTION CONTROL SYSTEM

General information

- Academic year 2023/24
- Course: First
- Trimester: First
- Number of credits: 3
- Teachers:
 - Carlos Montaña Batalla [<cmontanab@tecnocampus.cat>](mailto:cmontanab@tecnocampus.cat)

Teaching languages

- English

Presentation of the subject

SUPPLY CHAIN AND PRODUCTION CONTROL SYSTEMS.

The Tecnocampus will provide teachers and students with the digital tools needed to carry out the course, as well as guides and recommendations that facilitate adaptation to the non-contact mode.

Competences/learning outcomes

Basic

- CB6 - Possess and understand knowledge that provides a basis or opportunity to be original in the development and / or application of ideas, often in a research context
- CB7 How to apply the knowledge acquired and the ability to solve problems in new or little-known environments within broader (or multidisciplinary) contexts related to the area of study.
- CB8 - That students be able to integrate knowledge and confront the complexity of formulating judgments based on information that, being incomplete or limited, includes reflections on the social and ethical responsibilities linked to the application of their knowledge the judgments

Specific

- CE2. Application of tools and methodologies that facilitate creative and innovative thinking in everyday situations linked in the supply chain environment, logistics, and maritime businesses.
- CE4. Strategically manage the processes of business innovation in the supply chain and the maritime business, from the diagnosis to its application, being able to align resources, abilities and abilities to put them into practice
- CE5. Design and implement logistics systems, evaluating the different possible alternatives, technical and resource constraints and taking into account coordinated management and management throughout the supply chain.

Transversal

- CT1. Show willingness to learn about new cultures, experience new methodologies and foster international exchange in the context of logistics, the supply chain and maritime businesses.
- CT2. Show entrepreneurial leadership and management skills that strengthen personal confidence and reduce risk aversion.
- CT3. Develop tasks by applying the acquired knowledge with flexibility and creativity and adapting them to new contexts and situations.

No data

Contents

Chapter 1: Supply chain controls and metrics

- Financial measures of performance
- Controls of supply chain performance
- Framework for structuring controls
- Role, components, metrics and responsiveness efficiency of controller: facilities, inventory, transportation, information, sourcing and pricing

Chapter 2: Network design in the supply chain

- The role of network design in the supply chain
- Factors influencing network design decisions
- Framework for network design decisions
- Models for facility location and capacity allocation
- Making network design decisions in practice
- The impact of globalization on supply chain networks
- The offshoring Decision

Chapter 3: Quality analysis in production

- Quality concept
- Quality management
- The quality cycle
- Classification of quality costs
- Quality Control

Chapter 4: Production control

- The PERT method
- The PERT method with uncertainty

- Gantt charts

Sustainable Development Goals

- 05 - Gender equality
- 04 - Quality education
- 09 - Industry, innovation and infrastructure

Evaluation system

Continuous evaluation with the following percentages:

- 50%: Continuous evaluation
- 50%: Project

The continuous evaluation (50% of the grade) will consist in case studies at the end of each topic.

The project (50% of the grade) consists on a case study which will cover all the content of the subject.