TecnoCampus Escola Superior de Ciències Socials i de l'Empresa

Barcelono

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LOGISTICS, SUPPLY CHAIN & MARITIME BUSINESS

35018 - MODELS FOR PRODUCTION MANAGEMENT

General information

- Academic year 2023/24
- Course: First
- · Trimester: Third
- Number of credits: 3
- · Teachers:
 - Valeria Bernardo <u><vbernardo@tecnocampus.cat></u>
 - Genís Majoral Oller cat

Teaching languages

• English

Presentation of the subject

The subject works first, the tools of production planning, to then explore different systems of production management.

Competences/learning outcomes

Basic

- 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.
- CB9 How to communicate the conclusions and the knowledge and ultimate reasons that support the students to specialized and non-specialized audiences in a clear and unambiguous way

Specific

- CE1. Show autonomy with critical distance in issues or issues related to the maritime business, logistics and the supply chain and in the application of innovative ideas in these fields.
- 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.
- 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.
- CE6. Evaluate the performance of the entire logistics system, taking into account the fulfillment / no of the planned quality, cost and service objectives to detect and prioritize areas of improvement.

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

Topic 1:

- Introduction to production management.
- Production process activities

Topic 2: Production planning

- Capacity planning
- Aggregate planning
- Master Production ScheduleMaterial Requirements Planning (MRP)

Topic 3: Production management systems

- Little's Law
- Toyota production system
- TOC: constraint theory

Topic 4: Quality management

- TQM Total Quality Management
- QFD: Quality Function Deployment

Sustainable Development Goals

- 12 Responsible consumption and production
- 05 Gender equality
- 04 Quality education
- 09 Industry, innovation and infraestructure

Evaluation system

Class activities: 50%

Final exam: 50%

A minimum of 4 is required on the final exam to average with class activities. The subject is satisfactorily achieved with a 5.