

Degree	Type	Year	Semester
4313489 Logistics and Supply Chain Management	OB	1	1

## Contact

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## Use of languages

Principal working language: english (eng)

## Prerequisites

None

## Objectives and Contextualisation

The objective of the Project Management course is to introduce students to the knowledge, processes, skills, tools and techniques suitable for project management, such that the application of them to satisfy the requirements specified for project development, and may have a significant impact on its success. Specifically:

- Know the terminology and basic concepts of project management area.
- Understanding the relationship between logistics and supply chain management and project management.

## Skills

- Address problems of management and coordination of logistics operations in production, transport and services in a holistic approach, by means of the consistent application of the supply chain management concepts and strategies, taking into account the pertinent aspects of environment, human capital, quality, technology, and economics.
- Analyse, organise and discuss situations in logistics in order to identify and model the dependency relationships, influence and impact that usually occur in the main performance indicators and quality factors as well as evaluating their complexity.
- Demonstrate abilities in oral and written communication both in the student's native language and in English. Demonstrate synthesis skills and ability in presentation techniques.
- Demonstrate abilities to document and reflect the problem-solving process in order to extract the lessons learned.
- Demonstrate information management skills: ability to retrieve and analyse information from different sources.
- Face a new problem under a scientific perspective.
- Identify the main aspects to be planned in the resolution of a logistic project, specifying the project boundaries, and leading with a solution
- Select and apply the most relevant analytical methodologies, strategies and current technologies for designing solutions to the problems of management and coordination of material, information and financial flows.
- Students should know how to apply the knowledge they acquire and be capable of solving problems in new or little-known areas within broader contexts (or multidisciplinary contexts) related to their area of study

- Students should know how to communicate their conclusions, knowledge and final reasoning that they hold in front of specialist and non-specialist audiences clearly and unambiguously
- Work collaboratively in a group.

## **Learning outcomes**

1. Analyze how project management can support the LSCM activities.
2. Demonstrate abilities in oral and written communication both in the student's native language and in English. Demonstrate synthesis skills and ability in presentation techniques.
3. Demonstrate abilities to document and reflect the problem-solving process in order to extract the lessons learned.
4. Demonstrate information management skills: ability to retrieve and analyse information from different sources.
5. Face a new problem under a scientific perspective.
6. Identify the main aspects to be planned in the resolution of a logistic project, specifying the project boundaries, and leading with a solution
7. Students should know how to apply the knowledge they acquire and be capable of solving problems in new or little-known areas within broader contexts (or multidisciplinary contexts) related to their area of study
8. Students should know how to communicate their conclusions, knowledge and final reasoning that they hold in front of specialist and non-specialist audiences clearly and unambiguously
9. Understand the relationships between LSCM and project management.
10. Understand the key concepts and terminology in project management areas.
11. Work collaboratively in a group.

## **Content**

### **Theme 1: Introduction to Project Management**

- What is a project?
- Project Management: Overview
- Project Management: Need and interest
- Different forms of project management
- Systems approach: Overview

### **Theme 2: System Development Cycle**

- System Life Cycle
- Definition Phase
- Conception phase
- Construction phase
- Operation phase
- Transfer phase

### **Theme 3: Feasibility Study**

- What is feasibility study?
- Feasibility Study objectives
- Proposal for a feasibility study

### **Theme 4: Project Planning**

- Introduction
- The Project Master Plan
- Project Organization: Responsibilities
- Scheduling of activities: The Gantt chart

### **Theme 5: Graphs-based Programming Methods**

- Introduction
- Programming Techniques
- The Roy method
- The PERT method

#### Theme 6: Cost Analysis

- Introduction
- Cost Estimating Process
- Budget and Accounting Management
- Scheduling and Cost Control

#### Theme 7: Risk Management

- Introduction
- Risk identification
- Risk "measures"

#### Theme 8: Project Control

- Introduction
- Performance Analysis
- Change Control
- Reports

### Methodology

The course is organized by means of traditional lectures.

The learning process will combine the following activities:

- Theory lectures.
- Problem sessions.
- Practice sessions: computer lab, teamwork.
- Autonomous work.

### Activities

Title	Hours	ECTS	Learning outcomes
<b>Type: Directed</b>			
Problem sessions	5	0.2	1, 2, 3, 4, 5, 6, 7, 8, 11
Theory lectures	10	0.4	9, 10
<b>Type: Supervised</b>			
Practice sessions	7.5	0.3	1, 7, 11
<b>Type: Autonomous</b>			
Personal study	15	0.6	1, 9, 10
Problem solving	10	0.4	4, 5, 7, 11
Project development	25	1	2, 3, 4, 6, 7, 8, 11

## Evaluation

The evaluation will consist of a small project based on supply chain, which will assess the processes, skills, tools and techniques for project management acquired in the course and, together with the project planning, developed in the lab sessions, constitute 100 % of the final qualification of the subject.

All the report-based activities must be submitted within the due dates specified by the professor. If a report-based activity is failed, the student will be asked to re-submit its report according to the corrections/indications provided by the professor.

## Evaluation activities

Title	Weighting	Hours	ECTS	Learning outcomes
Planning a small project based on supply chain, developed in the problem and lab sessions	100%	2.5	0.1	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11

## Bibliography

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Romero López, C. Técnicas de Programación y Control de Proyectos. Ediciones Pirámide, 1988.

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