

**Project Management**

Code: 42645  
ECTS Credits: 3

| 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.

**Competences**

- 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          |
|-------------------|-------|------|----------------------------|
| Type: Directed    |       |      |                            |
| Problem sessions  | 5     | 0.2  | 1, 3, 6, 7, 8, 4, 5, 2, 11 |
| Theory lectures   | 10    | 0.4  | 9, 10                      |
| Type: Supervised  |       |      |                            |
| Practice sessions | 7.5   | 0.3  | 1, 7, 11                   |
| Type: Autonomous  |       |      |                            |
| Personal study    | 15    | 0.6  | 1, 9, 10                   |
| Problem solving   | 10    | 0.4  | 7, 4, 5, 11                |

|                     |    |   |                      |
|---------------------|----|---|----------------------|
| Project development | 25 | 1 | 3, 6, 7, 8, 4, 2, 11 |
|---------------------|----|---|----------------------|

## Assessment

### a) Scheduled evaluation process and activities

The subject does not have written exams. The evaluation is based on the different works presented during the semester.

The submission deadlines for the different reports will be published in the moodle classroom of the virtual campus since the very beginning of the semester. Deadlines are subject to possible reschedules in case of later events. The Virtual Campus is the only channel to communicate the most updated schedule, since it is assumed that this is the only platform for exchanging this information between faculty and students.

### b) Programming evaluation activities

The schedule of the regular evaluation activities will be published on the virtual campus at the early beginning of the semester. Dates for retaking process will be published at the examination section of the School of Engineering website.

### c) Retaking process

In accordance with the Academic Regulations of the UAB, participating in retaking process requires the student to have been previously evaluated in the set of evaluation activities, having achieved a minimum of two thirds of the total grade of the subject or module.

Practice work can't be retaken and must be submitted within the specified due dates.

A Project course work failed in the first instance can be recovered on the examination date set by the programme coordination. Re-taking will consist in the presentation of the corrected work according to the indications received by the professor. In this case, as long as the work meets the MINIMUM requirements, the work will be graded with a 5.

### d) Procedure to review qualifications

For each evaluation activity, a place, date and time in which the student can review the activity with the teacher will be indicated. The faculty responsible for the subject will assess the presented complaints regarding the awarded grade. The student can complain in the given date, but the activity will not be reviewed later.

### e) Qualifications

The evaluation will consist of the following activities:

- 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 50% of the final qualification of the subject.
- the public presentation and defense of the project constitutes 20% of the final qualification of the subject.
- average qualification of the set of group assignments, performed during the practice sessions. Each group of students submits a report with answers to the questions, related to each practice session. Constitute 30 % 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.

### f) Irregularities by the student, copy and plagiarism

Without prejudice to other disciplinary measures deemed appropriate, and in accordance with current academic regulations, any irregularity committed by the student, which could lead to an alteration of the evaluation act, will be scored with a zero. Therefore, copying or allowing to copy a practice or any other activity spoiling the evaluation will imply failing with a zero, and if the activity is required to pass the subject, the whole course will be failed. The evaluation activities qualified in this way and by this procedure will not be recoverable, and therefore the subject will be failed directly without the opportunity to retaking it in the same academic year.

#### h) Evaluation of students retaking the whole subject

Those students retaking the whole subject must follow the same evaluation activities as for the first time.

## Assessment Activities

| Title                                                                                     | Weighting | Hours | ECTS | Learning Outcomes                 |
|-------------------------------------------------------------------------------------------|-----------|-------|------|-----------------------------------|
| Planning a small project based on supply chain, developed in the problem and lab sessions | 50%       | 0     | 0    | 1, 9, 10, 3, 6, 7, 8, 4, 5, 2, 11 |
| Practice sessions reports                                                                 | 30%       | 0.5   | 0.02 | 1, 7, 11                          |
| Project public defense                                                                    | 20%       | 2     | 0.08 | 3, 2                              |

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