Course guide  
**220206 - 220206 - Operations Management**

Unit in charge: Terrassa School of Industrial, Aerospace and Audiovisual Engineering  
Teaching unit: 732 - OE - Department of Management.

Degree: MASTER’S DEGREE IN INDUSTRIAL ENGINEERING (Syllabus 2013). (Compulsory subject).

Academic year: 2022  
ECTS Credits: 5.0  
Languages: Catalan

**LECTURER**

Coordinating lecturer: FEDERICO GARRIGA GARZON

Others:

**DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES**

Specific:
1. Knowledge and skills to organize and manage companies.
2. Knowledge and skills of strategy and planning applied to different organizational structures.

**TEACHING METHODOLOGY**

The course is developed by the use of three types of methodology:
- Lecture sessions.
- Case study debates and problem-solving classes (case studies and exercises).
- Self-study for doing exercises and activities.

In the lecture sessions, lecturers will introduce the theoretical basis of the concepts, methods and results and illustrate them with examples appropriate to facilitate their understanding.

In the case study debates and problem solving sessions, lecturers guide students in applying theoretical concepts to solve problems and cases, always using critical reasoning. We propose that students solve exercises in and outside the classroom, to promote contact and use the basic tools needed to solve problems.

Students, independently, need to work on the materials provided by lecturers and the outcomes of the sessions of exercises/problems, in order to fix and assimilate the concepts.

The lecturers provide the curriculum and monitoring of activities (by ATENEA).

**LEARNING OBJECTIVES OF THE SUBJECT**

The aim of the course is that students deepen in the management techniques used in making strategic decisions, tactical and operative in the functional area of operations.
STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Hours small group</td>
<td>15,0</td>
<td>12.00</td>
</tr>
<tr>
<td>Self study</td>
<td>80,0</td>
<td>64.00</td>
</tr>
<tr>
<td>Hours large group</td>
<td>30,0</td>
<td>24.00</td>
</tr>
</tbody>
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Total learning time: 125 h

CONTENTS

Module 1: Operations Management

Description:
Simulation.
Process strategy.
Plant layout.
Toyota Production System.
Production Planning

Related activities:
Activity 1: Large/Theory group sessions.
Activity 2: Exercises/Medium groups sessions.
Activity 3: Atenea tasks, which will take place throughout the class period.
Activity 4: Final Exam.
Activity 5: Practices.

Full-or-part-time: 125h
Theory classes: 30h
Laboratory classes: 15h
Self study : 80h

GRADING SYSTEM

The final grade depends on the following assessment criteria:
- Activity 3 (Atenea tasks, which will take place throughout the class period), weight: 35%.
- Activity 4 (exam), weight: 35%.
- Activity 5 (Practices), weight: 30%.

Unsatisfactory exam (4 activity) results (less than six points) may be redone by a written test to be done on the day set for the final exam. The note obtained in the revision test will only replace the original in case of being greater.
BIBLIOGRAPHY

Basic:

Complementary: