

Course guide

220562 - 220562 - Business Management

Last modified: 11/04/2025

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

Degree: MASTER'S DEGREE IN MANAGEMENT ENGINEERING (Syllabus 2012). (Compulsory subject).

Academic year: 2025 **ECTS Credits:** 5.0 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: JUAN CARLOS GARCIA PASCUAL

Others:

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

1. To analyze the risks and consequences of proposed solutions in the various organizational sub-systems and their social and environmental contexts.
2. Apply concepts and techniques of descriptive and statistical inference under uncertainty.
3. Apply quantitative and experimental methods for making decisions in situations where intangibles appear
4. Apply theories and inherent principles in the general direction of an organization with the aim of analyzing uncertainty complex situations and make decisions using engineering tools.
11. Manage activities with relevant content of projects and / or operations that technology and organization have to interact effectively and efficiently
12. Identify, analyze, diagnose, design and implement solutions to complex socio-technical systems

Generical:

13. Ability to apply knowledge to solve problems in new environments or unfamiliar environments within broader contexts (or multidisciplinary) related to engineering.
14. Self-learning capacity to independent continuous training.
15. Ability to effectively communicate their findings, knowledge and concluding reasons to skilled and unskilled audiences, clearly and unambiguously.
16. Ability to integrate knowledge and formulate judgments with the aim of making decisions based on information that, with incomplete or limited include reflecting on social and ethical responsibilities linked to the application of their knowledge and judgments.
17. Ability to understand the impact of engineering solutions in a global and social context .
18. Ability to operate and lead multidisciplinary and multicultural groups, with negotiation skills, group work, relationships in an international setting, and conflict resolution.

TEACHING METHODOLOGY

The course is divided into three parts:

Theory classes
Practical classes
Self-study for doing exercises and activities.

In the theory classes, teachers will introduce the theoretical basis of the concepts, methods and results and illustrate them with examples appropriate to facilitate their understanding.

In the practical classes (in the classroom), teachers guide students in applying theoretical concepts to solve problems, 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 teachers and the outcomes of the sessions of exercises/problems, in order to fix and assimilate the concepts.

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

LEARNING OBJECTIVES OF THE SUBJECT

The course aims to bring students to the complexity of management based on knowledge of the nature of this function (both cognitive and behavioural aspects), the evolution that has taken over the course of time, developing that are currently on the market between those who aspire to exercise the power, some experiences that could be developed in the training area in question, and possible trends that join.

STUDY LOAD

Type	Hours	Percentage
Hours large group	8,0	6.40
Guided activities	22,0	17.60
Hours medium group	15,0	12.00
Self study	80,0	64.00

Total learning time: 125 h

CONTENTS

Module 1: The nature of managerial work.

Description:

Nature of managerial work.
Behavioural aspects in the performance of the directive
Current models of management development: the B_Schools

Full-or-part-time: 62h

Theory classes: 16h
Practical classes: 8h
Self study : 38h

Module 2: Historical and future trends of the management function

Description:

Background recognizing the policy role
Historical evolution of the main formal schools
Scenarios for future trends and breakouts. Probabilitatzió.

Full-or-part-time: 63h

Theory classes: 15h
Practical classes: 6h
Self study : 42h

GRADING SYSTEM

The final grade depends on the following assessment criteria:

- Mid-Semester Exam 01, weight 35 %
- Mid-Semester Exam 02, weight 35 %
- Activity 1 (case), weigh 15 %
- Activity 2 (case), weigh 15 %

All of those students who cannot attend to any of the part exams, or those who want to improve their results, they will have the option of retaking it in a final exam. In no circumstance the final exam's mark will be used if it is below the part exam's one.

BIBLIOGRAPHY

Basic:

- Mintzberg, Henry. La naturaleza del trabajo directivo. Barcelona: Ariel, 1991. ISBN 8434461005.

Complementary:

- Hamel, Gary. Compitiendo por el futuro: estrategia crucial para crear los mercados del mañana. Barcelona: Ariel, 1995. ISBN 8434414139.
- Johnson, G.; Scholes, K.; Whittington, R. Dirección estratégica. 7ª ed. Madrid [etc.]: Prentice Hall, 2006. ISBN 9788420546186.
- Porter, Michael E. Estrategia competitiva: técnicas para el análisis de los sectores industriales y de la competencia. Madrid: Pirámide, 2009. ISBN 9788436823387.

RESOURCES

Other resources:

Slides and Hand outs
Case Study collection
Articles and Papers