

# Syllabus Entreprise. 2025-2026

Degree in Aerospace Engineering

# 11877 Enterprise

- ▶ Groups:

- ▶ 811

- ▶ 812

- ▶ 813

# Instructors

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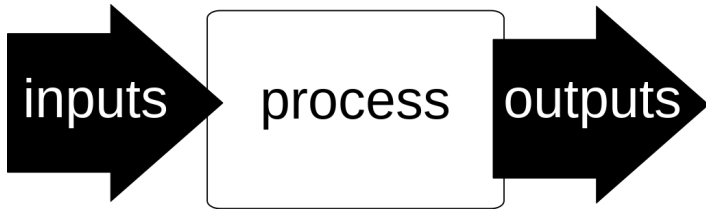
**Economics and Social Sciences Department**

# Course Goals



- ▶ To understand the importance of the enterprise as economic production unit
- ▶ To understand the company's working principles taking into account its subsystems or functional units
- ▶ For each subsystem the student should be able to:
  - ▶ Define its functions
  - ▶ Understand the issues related with those functions
  - ▶ Understand the relationship between subsystems
  - ▶ Know and use company management tools to make decisions
- ▶ To relate engineering projects with concepts such as return, financing and viability

## Production process



# Units

Unit 1. Introduction to the enterprise and its environment

Unit 2. Information subsystem

Unit 3. Investment-financing subsystem

Unit 4. Operation subsystem

Unit 5. Other subsystems

# Units and Lessons

## Unit 1. Introduction to the enterprise and its environment

- ▶ **L01. Microeconomic environment.** Demand and supply. Markets and resources. Elasticity
- ▶ **L02. Macroeconomic environment.** policy, economic, social and technological environment. Corporate Social responsibility (CSR). Macroeconomic variables
- ▶ **L03. Basic concepts on aerospace companies.** Ownership structure. Resources and capabilities. Corporate strategy. Human resources
- ▶ **L04. Business metrics.** Revenues and expenses. Profits

# Units and Lessons

## Unit 2. Information subsystem

- ▶ **L05. Economic information through accounting.**  
Accounting standardization. Financial statements

## Unit 3. Investment-financing subsystem

- ▶ **L06. Financial statements analysis.** liquidity, solvency and return. Financial planning
- ▶ **L07. Investment decisions.** Financial assessment of projects. Investment parameters. NPV, IRR, payback
- ▶ **L08. Financing decisions.** Financial sources. The cost of financial sources. Cost of capital and capital structure



# Units and Lessons

## Unit 4. Operation subsystem

- ▶ **L09. Operation decisions.** Strategic and tactical decisions
- ▶ **L10. Production costs.** Cost-volume-profit analysis

## Unit 5. Other subsystems

- ▶ **L11. Commercial and human resources subsystems**

# Labs

8 labs (1 lab  $\times$  1 hour/lab + 7 labs  $\times$  2 hour/lab). Excel centered.

## **Topics:**

- ▶ External Financing
- ▶ Investment assessment

## Meeting days

Mon: 8.00 - 9.30

Wed: 8.00 - 9.30

Venue: Lab S31

Labs:

- ▶ 811 : Tue 11:30 - 13:30 Lab N13
- ▶ 812: Tue 11:30 - 13:30 Lab N13
- ▶ 813: Fri 11:30 - 13:30 Lab S32

# Tutoring

Meeting to solve questions about the course lessons (In person or by MS Teams)

How to ask for tutoring:

- ▶ Intranet -> Virtual secretary -> Requests -> Tutoring hours on demand request
- ▶ Intranet -> Secretaría Virtual -> Solicitudes -> Solicitud de tutorías bajo demanda

Tutoring requests by email would not be accepted

# Assessment and grade weights

- ▶ Labs: 20%
- ▶ Handed-in exercises: 10%
- ▶ Test exam: 30%
- ▶ Exam (test + exercises): 40%

If weighted average  $< 5.00$  **Makeup procedure:**

- ▶ For labs  $< 5.00$  lab exam
- ▶ 70% exam (30% test + 40% exercises) not splittable!

**Attendance-waiver students:**

20% lab exam

80% exam (30% test + 50% exercises)

## Exam dates

- ▶ Exam 1 (test): date pending
- ▶ Exam 2 (exercises): 12-01-2026 8:00
- ▶ Exam 3 (remedial test+exercises): 28-01-2026 11:30

# Materials

- ▶ Slides in PoliformaT
- ▶ Reading links

## Text books

Mochón, F. (2010). Principios de Economía. Ed. McGraw-Hill. 4ª edición. Madrid. 409pp.

Archel, P.; Lizarraga, F.; Sánchez, S. y Cano, M. (2018). Estados contables: elaboración, análisis e interpretación. Ed. Pirámide. 6ª edición. 640pp.

Barroso, C. (2012). Economía de la Empresa. Ed. Pirámide. 2ª edición. Madrid. 288pp.

Domínguez, J.A.; García, S.; Ruiz, A.; Domínguez, M.A. y Álvarez, M.J. (1995). Dirección de operaciones: aspectos estratégicos en la producción y los servicios. Ed. McGraw-Hill. 482 pp.

Kotler, P. y Keller, K.L. (2016). Dirección de marketing. Ed. Addison-Wesley. 14ª edición.