

## Course guide

### 240EN22 - 240EN22 - Entrepreneurship Skills

**Last modified:** 13/03/2025

**Unit in charge:** Barcelona School of Industrial Engineering  
**Teaching unit:** 732 - OE - Department of Management.  
756 - THATC - Department of History and Theory of Architecture and Communication Techniques.

**Degree:** MASTER'S DEGREE IN ENERGY ENGINEERING (Syllabus 2013). (Optional subject).  
MASTER'S DEGREE IN ENERGY ENGINEERING (Syllabus 2022). (Optional subject).

**Academic year:** 2025    **ECTS Credits:** 5.0    **Languages:** English

#### LECTURER

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**Coordinating lecturer:** Marta Aguilar i Pérez  
Jordi Olivella Nadal

**Others:** Marta Aguilar i Pérez (Communication)  
Jordi Olivella Nadal (Entrepreneurship)

#### PRIOR SKILLS

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Possess at least the B.2.2 (First Certificate) proficiency level or equivalent.

#### TEACHING METHODOLOGY

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Class activities will consist of short-range written exercises, individual assignments (presentation of assignments; registration assignment, feasibility report; technical descriptions and marketing report by the Communication part and in obtaining information and in the application of technical evaluation of a technology and its market potential (part of Entrepreneurship).

Simultaneously, a technical opportunity will be studied and a report and oral presentation of this opportunity will be prepared. The project will be unique and common in both parts of the subject.

#### LEARNING OBJECTIVES OF THE SUBJECT

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In relation to technological entrepreneurship, this course aims to provide students with an experience-based introduction into the initial phase of starting a technology company. It is a real life simulation of the process that founders go through when analysing a technological business opportunity.

In relation to communication, the objectives are familiarise students with the main features of technical and business English so that they can communicate technical information effectively, both in writing and orally. raise awareness about the importance of the communicative context, purpose and audience so that content and format and register are adapted to every communicative situation. Communicating for informative purposes (e.g. writing a progress report or informational presentation) and for persuasive purposes.

At the end of the course, the student will be able to use the tools analysis of analysis that are used in the entrepreneurship world to assess a technological business opportunity and to present the results appropriately.

## STUDY LOAD

Type	Hours	Percentage
Hours medium group	30,0	66.67
Hours large group	15,0	33.33

**Total learning time:** 45 h

## CONTENTS

### MODULE 1: TECHNOLOGICAL BUSINESS OPPORTUNITIES: TECHNOLOGY ASPECTS

**Description:**

Methodology of analysis of a technological business opportunity

**Full-or-part-time:** 10h 30m

Theory classes: 7h 30m

Self study : 3h

### MODULE 2: TECHNOLOGICAL BUSINESS OPPORTUNITIES: MARKET ASPECTS

**Description:**

Methodology of analysis of a technological business opportunity

**Full-or-part-time:** 10h 30m

Theory classes: 7h 30m

Self study : 3h

### MODULE 3: TECHNICAL AND BUSINESS COMMUNICATION

**Description:**

Featuring technical and business communication. Aspects of tone and style (register). Impersonalization in technical documents. Writing memos and technical innovation proposal or progress reports on entrepreneurship projects. Short oral presentations: informative format (Product and process description)

**Related activities:**

From a case study on a communication problem, write a better, revised version of one or several documents. Tasks on the academic and technical register. Rewriting a text from informal to formal and viceversa.

**Full-or-part-time:** 10h 30m

Theory classes: 7h 30m

Self study : 3h

### MODULE 4: PERSUASIVE COMMUNICATION

**Description:**

- "Elevator pitch": selling an idea of a technological innovative product in a few minutes.

**Full-or-part-time:** 10h 30m

Theory classes: 7h 30m

Self study : 3h

## ACTIVITIES

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### Project: Development of the analysis of a technological business opportunity

**Description:**

A technical opportunity will be studied and a report and oral presentation of this opportunity will be prepared. The project will be unique and common in both parts of the subject.

**Full-or-part-time:** 83h

Self study: 68h

Practical classes: 15h

## GRADING SYSTEM

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Class activities,

Communication sessions: 25%

Technology opportunities sessions: 25%

Final report and oral presentation,

Communication aspects: 25%

Technology aspects: 25%

## BIBLIOGRAPHY

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**Basic:**

- Bombardó, C.; Aguilar, M. ; Barahona, C. Technical writing : a guide for effective communication [on line]. Barcelona: Edicions UPC, 2007 [Consultation: 02/07/2025]. Available on: <https://upcommons.upc.edu/handle/2099.3/36667>. ISBN 9788483019276.

- Lannon, John M ; Gurak ; Laura J. Technical communication [on line]. 15th ed. Harlow: Pearson education limited, 2021 [Consultation: 27/06/2025]. Available on: <https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=6504034>. ISBN 9781292363646.

- Osterwalder, Alexander; Pigneur, Yves; Clark, Tim. Business model generation : a handbook for visionaries, game changers, and challengers [on line]. Hoboken, New Jersey: John Wiley & Sons, cop. 2010 [Consultation: 14/07/2025]. Available on: <https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=581476>. ISBN 9780470876411.

- Olivella Nadal, Jordi. Technology evaluation for entrepreneurs [on line]. Copenhagen: Bookboon.com, 2018 [Consultation: 20/04/2023]. Available on: <https://bookboon.com/en/technology-evaluation-for-entrepreneurs-ebook>. ISBN 9788740323603.