

# Course guide 295463 - 295TM125 - Innovation Technology 1

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Unit in charge: Teaching unit:	Barcelona East School of Engineering 732 - OE - Department of Management.
Degree:	MASTER'S DEGREE IN MECHANICAL TECHNOLOGIES (Syllabus 2024). (Optional subject).
Academic year: 2024	ECTS Credits: 6.0 Languages: English
LECTURER	
Coordinating lecturer:	Jordi Olivella Nadal
Others:	GEMA CALLEJA SANZ

# **TEACHING METHODOLOGY**

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The teaching of the course is based on different methodologies (Master classes, seminars, workshops, projects) prioritizing active learning and "learning by doing" through exercises and team projects.

## LEARNING OBJECTIVES OF THE SUBJECT

This course aims to provide students with an experience-based introduction into the technology-based innovation. A real life simulation of the process that innovators go through when considering a technological business opportunity witl be performed. To do so, the different steps of the innovation process will be considered. In particular, the phases considered will be: (1) analysis of a technology opportunity, (2) definition of a proposal, and (3) presentation of a proposal.

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

## **STUDY LOAD**

Туре	Hours	Percentage
Hours large group	54,0	36.00
Self study	96,0	64.00

#### Total learning time: 150 h

### CONTENTS

Innovation tools		
Description:		
CX/Design thinking		
Business Model Innovation		
Blue Ocean		
Tech trends		
Full-or-part-time: 17h		
Theory classes: 17h		



#### Analysis of a technological opportunity

**Description:** Obtaining of information Level of development Comparison of alternatives Technology forecasting

**Full-or-part-time:** 17h Theory classes: 17h

# **GRADING SYSTEM**

Class assignments of blocks 1 and 2: 30% each Course project: 40%

## **BIBLIOGRAPHY**

#### **Basic:**

- Lannon, John M. Technical communication [on line]. 14th ed. Boston: Pearson Education Limited, [2016] [Consultation: 14/09/2022]. Available on: https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=5186 037. ISBN 9781292154305.

- 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: 14/09/2022]. Available on: https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=5814 76. ISBN 9780470876411.

- Trott, Paul. Innovation management and new product development. Sixth Edition. Harlow: Pearson, [2017]. ISBN 9781292133423.

- Olivella Nadal, Jordi. Technology evaluation for entrepreneurs [on line]. Copenhagen: Bookboon.com, 2018 [Consultation: 14/09/2022]. Available on: <u>https://yourknow.com/uploads/books/technology-evaluation-for-entrepreneurs.pdf</u>. ISBN 9788740323603.

- Bombardó, C.; Aguilar, M.; Barahona, C. Technical writing : a guide for effective communication [on line]. Barcelona: Edicions UPC, 2007 [Consultation: 08/02/2018]. Available on: <u>http://hdl.handle.net/2099.3/36667</u>. ISBN 9788483019276.