

Course guide 295464 - 295TM115 - 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.