

Course guide 295587 - 295PB015 - Technology Innovation

Last modified: 24/05/2024

Unit in charge: Barcelona East School of Engineering
Teaching unit: 732 - OE - Department of Management.

Degree: MASTER'S DEGREE IN POLYMERS AND BIOPLASTICS (Syllabus 2024). (Compulsory subject).

Academic year: 2024 ECTS Credits: 3.0 Languages: English

LECTURER

Coordinating lecturer: Jordi Olivella Nadal

Others: GEMA CALLEJA SANZ

JORGE OLIVELLA NADAL

TEACHING METHODOLOGY

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 witll 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	21,0	30.43
Self study	48,0	69.57

Total learning time: 69 h

CONTENTS

Innovation tools

Description:

CX/Design thinking Business Model Innovation

Blue Ocean Tech trends

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

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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

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- 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=5186037. 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=581476. ISBN 9780470876411.
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- 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: http://hdl.handle.net/2099.3/36667. ISBN 9788483019276.

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