

# 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: <a href="https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=5186037">https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=5186037</a>. 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: <a href="https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=581476">https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=581476</a>. ISBN 9780470876411.
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