

Course guide

295916 - EPE - Professional Tools for Engineering

Last modified: 29/01/2026

Unit in charge: Barcelona East School of Engineering
Teaching unit: 702 - CEM - Department of Materials Science and Engineering.
 737 - RMEE - Department of Strength of Materials and Structural Engineering.

Degree: BACHELOR'S DEGREE IN BIOMEDICAL ENGINEERING (Syllabus 2009). (Optional subject).
 BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Optional subject).
 BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Optional subject).
 BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Optional subject).
 BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Optional subject).
 BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Optional subject).
 BACHELOR'S DEGREE IN MATERIALS ENGINEERING (Syllabus 2010). (Optional subject).

Academic year: 2025 **ECTS Credits:** 6.0 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: Jordi Llumà i Sebastián Tornil

Others: Jordi Llumà i Sebastián Tornil

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

prepare students for the professional practice of engineering through practical workshops taught by companies and entities in the sector.

STUDY LOAD

Type	Hours	Percentage
Hours large group	30,0	16.95
Hours small group	12,0	6.78
Guided activities	15,0	8.47
Self study	120,0	67.80

Total learning time: 177 h

CONTENTS

Workshop 1. Ideation Engineering

Description:
content english

Full-or-part-time: 2h
Theory classes: 2h



title english

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content english

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Full-or-part-time: 2h

Theory classes: 2h

title english

Description:

content english

Full-or-part-time: 32h

Theory classes: 32h

title english

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content english

Full-or-part-time: 32h

Theory classes: 32h

GRADING SYSTEM
