

Course guide

295908 - FABAD2 - Additive Manufacturing II

Last modified: 02/10/2025

Unit in charge: Barcelona East School of Engineering
Teaching unit: 712 - EM - Department of Mechanical 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:** 3.0 **Languages:** Spanish

LECTURER

Coordinating lecturer:

Others:

PRIOR SKILLS

Drawing 3D pieces

TEACHING METHODOLOGY

Theory lessons and team work session based on a project

LEARNING OBJECTIVES OF THE SUBJECT

The subject aims that the student:

1. Have the ability to select and design the process manufacturing parts by additive manufacturing.
2. Apply and integrate the knowledge to develop the project of manufacturing a mechanical assembly, using CAD-CAM-CAE techniques and additive manufacturing.
3. Be able to control the quality of the manufactured parts.

STUDY LOAD

Type	Hours	Percentage
Hours large group	30,0	40.00
Self study	45,0	60.00

Total learning time: 75 h



CONTENTS

Additive manufacturing main principles

Description:

content english

Full-or-part-time: 3h

Theory classes: 2h

Practical classes: 1h

Project development

Description:

content english

Full-or-part-time: 3h 20m

Guided activities: 3h 20m

GRADING SYSTEM

Based on the project mark, will be given a number of points to be distributed among team members

This subject does not have re-evaluation test

EXAMINATION RULES.

Oral presentation about project results