Course guide
295908 - FABAD2 - Additive Manufacturing 2

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: 2023  ECTS Credits: 3.0  Languages: Spanish

LECTURER
Coordinating lecturer: Travieso Rodriguez, Jose Antonio
Others: Travieso Rodriguez, Jose Antonio

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Hours large group</td>
<td>30,0</td>
<td>100.00</td>
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Total learning time: 30 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