

295907 - FABAD1 - Additive Manufacturing 1

Coordinating unit: 295 - EEBE - Barcelona East School of Engineering
 Teaching unit: 712 - EM - Department of Mechanical Engineering
 Academic year: 2019
 Degree: BACHELOR'S DEGREE IN BIOMEDICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
 BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
 BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
 BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Teaching unit Optional)
 BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
 BACHELOR'S DEGREE IN MATERIALS ENGINEERING (Syllabus 2010). (Teaching unit Optional)
 BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
 ECTS credits: 3 Teaching languages: Spanish

Teaching staff

Coordinator: JOSE ANTONIO TRAVIESO RODRIGUEZ
 Others: Primer quadrimestre:
 JOSE ANTONIO TRAVIESO RODRIGUEZ - M10

Prior skills

Drawing 3D pieces

Requirements

GRAPHICAL EXPRESSION

Teaching methodology

There will be theory sessions and team work sessions based on a project

Learning objectives of the subject

The subject pretends that the student:

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

Study load

Total learning time: 75h	Hours large group:	30h	40.00%
	Hours medium group:	0h	0.00%
	Self study:	45h	60.00%

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Content

<p>Generals issues about additive manufacturing techniques</p>	<p>Learning time: 3h Theory classes: 2h Practical classes: 1h</p>
<p>Description: content english</p> <p>Specific objectives: Acquire knowledge about the different techniques of additive manufacturing</p>	
<p>Project development</p>	<p>Learning time: 3h 20m Theory classes: 3h Guided activities: 0h 20m</p>
<p>Description: content english</p>	

Qualification system

The evaluation of the project will be based on the presentation of the report and a final presentation. Partial deliveries will be distributed throughout the semester

This subject does not have re-evaluation test

Regulations for carrying out activities

$$NF = 0.6 NP + 0.4 * E$$

NF-Final mark

NP- Project Mark

E- Partial deliveries

Bibliography