

62953 - Design for additive manufacturing

Información del Plan Docente

Academic Year 2016/17

Academic center 110 - Escuela de Ingeniería y Arquitectura

Degree 562 - Master's in Product Development Engineering

ECTS 4.5
Course 1

Period Second semester

Subject Type Optional

Module ---

1.Basic info

1.1.Recommendations to take this course

1.2. Activities and key dates for the course

2.Initiation

2.1.Learning outcomes that define the subject

2.2.Introduction

3.Context and competences

3.1.Goals

3.2.Context and meaning of the subject in the degree

3.3.Competences

3.4.Importance of learning outcomes

4.Evaluation

5. Activities and resources

5.1.General methodological presentation

5.2.Learning activities

5.3.Program

The program that is offered to student includes the following activities:

^{*} Introduction to additive fabrication. History, classification and workflow phases.



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- * Additive manufacturing technologies. Strengths and weaknesses. Features final piece.
- * Design for Additive Manufacturing
- * Tools processing point clouds. reverse engineering, exact surfaces, parametric surfaces and straightforward design.
- * Specific tools for manufacturing preparation, file repair and analysis.
- * Optimal design tools in additive manufacturing. Topological design and lattice structures
- * Use and maintenance of professional and personal equipment in additive manufacturing
- * Sectors of application and application tools dedicated by sector.

And the following practical exercises:

Analysis work technologies.

Making one or more design projects by sector through dedicated tools for treatment and making final result.

5.4. Planning and scheduling

5.5.Bibliography and recomended resources