

## 62943 - Advanced development of product

### 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	6.0
Course	1
Period	First semester
Subject Type	Compulsory
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

1. Concurrent Engineering and PLM (Product Lifecicle Management).

Methodologies in concurrent engineering

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Applications for managing product life-cycle management

### 2. Design for manufacture. (DFM)

Design guidelines in different manufacturing processes.

Digital manufacturing applications for planning and optimization of manufacturing processes.

### 3. Design for Assembly. (DFA)

Design and assembly: manual assembly and automated assembly

Guidelines and methodologies

Design for assembly with automatic systems and robots

### 4. Sustainable Design and Ecodesign

Design criteria considering the recyclability and the end of product life.

Methods for assessing environmental impact and life-cycle assessment in the process.

Methodology for identification and assessment of sustainable aspects in the production process.

Criteria for selection of sustainable processes

## 5.4.Planning and scheduling

## 5.5.Bibliography and recommended resources