

25826 - Value Analysis

Información del Plan Docente

Academic Year	2017/18
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	271 - Bachelor's Degree in Industrial Design and Product Development Engineering
ECTS	5.0
Year	
Semester	Second Four-month period
Subject Type	Optional
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

4.1.Assessment tasks (description of tasks, marking system and assessment criteria)

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

The general approach for this subject is "learning by doing", using Project Based Learning and Experiential Learning.

Students, organized by groups, have to carry out two different projects about product design. In these projects, students will use all knowledge, tools and methodologies explained in lectures.

5.2.Learning tasks

Lectures

They will be taught weekly and will explain the basic concepts of the subject.

Seminars

Certain theoretical sessions will be replaced by practical activities, which will deepen the key aspects of the subject. These sessions will be focused as practical workshops for the student to participate actively in them.

Projects

As a fundamental part of the course students will have to carry out two projects in which they will implement all the contents, which will consist of the redesign of a product to improve its competitiveness in the market. This work will be carried out by groups of between 4 and 6 people.

Project Monitoring

Weekly meeting with the tutor assigned to each group.

In this session the tutor will be responsible for monitoring each project and solving the doubts raised by the students.

Oral defense of the project

The defense will consist of an oral presentation of the results of the project, in which all the members of the group will have to participate.

5.3.Syllabus

The program of the subject will develop the following topics:

1. Needs analysis.
2. (QFD - Quality Function Deployment).
3. Concept of value.
4. Methodology of value analysis.
5. Functional analysis
6. Analysis of the cost / value of a product.
7. Implementation of improvements in product design
8. Design of experiments.

5.4.Course planning and calendar

At the beginning of the course, students will receive a detailed calendar with the scheduling of all learning activities.

5.5.Bibliography and recommended resources