

25887 - Design Workshop V: Product and Service

Syllabus Information

Academic year: 2024/25

Subject: 25887 - Design Workshop V: Product and Service

Faculty / School: 110 - Escuela de Ingeniería y Arquitectura

Degree: 558 - Bachelor's Degree in Industrial Design and Product Development Engineering

ECTS: 6.0

Year: 3

Semester: Second semester

Subject type: Compulsory

Module:

1. General information

The objective is to put special emphasis on the conceptualization and definition of products as a service system, and on the practice of tools specially dedicated to the formulation of these concepts, to the dematerialization of the product and to the development of the service product. The subject will deepen in techniques and tools of people-centered design oriented to the design of services.

2. Learning results

- Be able to develop to a satisfactory degree relatively complex product concepts, not only in terms of component definition, material selection and production processes, and estimation of their cost in relative terms, but also with regard to the set of services, benefits, and intangible values linked to it.
- Be able to conceive service products.
- Understand the importance of ecodesign methodologies, their main techniques and objectives, as well as their definitions, terminology and concepts.
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3. Syllabus

As stated in the degree's verification report, the program foreseen for the subject includes the following contents:

1. Concept of the product as a service to the user that encompasses more than its physical or technical components.
2. Concept of PSS.
3. Concept of functional unit. Sustainability and Circular Economy.
4. Ecodesign: Variable e3. Strategies and tools for circular and sustainable design.
5. Life Cycle Concept.
6. Instruction manual.
7. Service design.
8. Brand value, product reputation.

4. Academic activities

The bulk of the subject will consist of the development of practical projects, which will be tutored in practical classes of team works, and where there will also be room for various practices and exercises in the classroom. The subject will also include with a series of theoretical classes, which will include the exposition of contents with presentations and examples, and that will allow the learning of definitions, concepts, and diverse work methodologies and theoretical approaches of the discipline.

The activities of the course are distributed as follows:

Lectures (theory and problems): 30 h.

Laboratory practices: 30 h.

5. Assessment system

Continuous assessment

1. Theory block (20%):

1.1 Weekly class activities (10%)

1.2 Written test in the first call (10%,)

2. Practical block (80%): module project
*All parts must be passed with a mark of 5.0 or higher.

Global evaluation (1st and 2nd call).

1. Theory block (20%)

1.1. Individual project (10%)

1.2. Written test (10%)

2. Practical block (80%): practical projects specifically defined for this mode of evaluation.

*All parts must be passed with a mark of 5.0 or higher.

6. Sustainable Development Goals

9 - Industry, Innovation and Infrastructure

13 - Climate Action

16 - Peace, Justice and Strong Institutions