Universidad Zaragoza

Academic Year/course: 2024/25

25889 - Design Workshop VI: Professional Practice

Syllabus Information

Academic year: 2024/25
Subject: 25889 - Design Workshop VI: Professional Practice
Faculty / School: 110 - Escuela de Ingeniería y Arquitectura
Degree: 558 - Bachelor's Degree in Industrial Design and Product Development Engineering
ECTS: 6.0
Year: 4
Semester: First semester
Subject type: Compulsory
Module:

1. General information

In the last compulsory subject of project development of the degree, the total of the knowledge acquired by the students in previous subjects is applied, which is the step prior to the completion of the Degree Final Project.

The subject simulates as realistically as possible the professional work of design, seeking to complete a project in the context of a company, through teamwork and within a given time frame, so that it satisfies a series of predefined objectives, and following a pre-established methodology and planning.

The subject is a checkpoint course for the cross-cutting competency of effective communication skills.

2. Learning results

The ability to apply the acquired knowledge to the development of professional activity is one of the most relevant values that students can obtain from their university training period. . Through the work in this subject, aims to enhance this capacity.

In addition, students will gain experience in the exercise of their activity in a context as close as possible to the real one, which, in addition to the knowledge acquired, will provide them with experience, self-confidence and security when undertaking their professional activity.

By passing this subject, students will have achieved the following results:

1. Be able to work in a team in the development of an industrial design project for the realization of a product, within the context of the company.

2. Be able to carry out the complex planning of a project according to the requirements of a client company, prior to the execution of the project, and to draft a schedule of conditions that includes such planning.

3. From these specifications, be able to develop the project following the proposed planning, being also able to develop the phases of collection and analysis of documentation prior to the generation of concepts, the drafting of project specifications, the development of innovative and creative product proposals, and performing the complete technical development and definition for its possible production.

4. Be able to adequately document all these works, so as to ensure that the client company maintains the necessary degree of information and control over the project, and that the achievement of the projectobjectives established in the project planning and specifications is ensured.

3. Syllabus

The program is based on Project Based Learning and on the presentation of cases and theoretical contents by prestigious professionals, which must be agreed upon at the beginning of the term. Students will receive detailed informationabout the schedule of sessions and lectures through the moodle pages of the subject.

In general, the contents to be developed in the seminars are:

1. Development of projects in work teams.

2. Multi-project activity.

3. Responsibility in the professional practice.

4. Different areas of professional practice.

5. Analysis of real cases.

6. Visits to/from professional design service companies.

7. Business strategies linked to the development of product proposals.

8. Industrial property.

4. Academic activities

The learning process designed for this subject is based on the development of one or several projects proposed by companies. Students will work in teams, developing the project with the support of the teachers of the subject and in collaboration with the subject Technical Office and, if there is opportunity, students from other degrees, favoring the development of transversal skills. Most of the classes will consist of practical work sessions for tutoring and monitoring of the project, where the different groups will work in a similar way as in a company dedicated to industrial design and product development.

The subject will also consist of a series of theoretical sessions, including lectures, presentations by professionals and company experiences. The schedule of the sessions will be exposed in the first classes of the subject and will necessarily be adapted to the availability of external collaborators in the subject.

5. Assessment system

The student will develop one or several projects (depending on the type of project and collaborating companies) in a team, which will include oral presentations and discussions and will account for at least 75% of the total grade of the subject. In the same way, students will develop theoretical papers and written tests that will represent up to 25% of the total grade of the subject.

These projects will be developed throughout the semester, and throughout it, partial presentations of results will be evaluated, adding up a series of grades from which, by weighted average, the overall grade of the practice grade will be obtained.

The following sections will be evaluated in these presentations:

- Project planning. Documentation and conclusions Design specifications. Concept generation. Formal and functionaldevelopment of the selected proposal Technical documentation Presentation of the finished project.

The characteristics of the theoretical tests and written assignments will be described at the beginning of the term.

Note: Following the regulations of the University of Zaragoza in this regard, in the subjects that have continuous or gradual evaluation assessment, a global assessment test will also be scheduled for those students who decide to opt for this second system.

6. Sustainable Development Goals

8 - Decent Work and Economic Growth
9 - Industry, Innovation and Infrastructure
12 - Responsible Production and Consumption