

26830 - Graphic Tools and Optical Design

Syllabus Information

Academic Year: 2018/19

Subject: 26830 - Graphic Tools and Optical Design

Faculty / School: 100 - Facultad de Ciencias

Degree: 297 - Degree in Optics and Optometry

ECTS: 6.0

Year: ---

Semester: Second semester

Subject Type: Optional

Module: ---

1.General information

1.1.Aims of the course

1.2.Context and importance of this course in the degree

1.3.Recommendations to take this course

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

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

4.Methodology, learning tasks, syllabus and resources

4.1.Methodological overview

The proposed methodology seeks to encourage student's continued work and focuses on the most design practices in Optics.

4.2.Learning tasks

- Theoretical/Practical lectures:

The master sessions deal with the more theoretical aspects that are complemented by the study of practical cases.

Practical sessions are performed using graphical computer aided design programs. So, it is intended to promote practical learning, which is enhanced by the performance of level tests and the continuous evaluation of the work developed in them by students.

- Technical Drawing Practices:

- Learning how to use Computer-Aided Design (CAD) software
- Create technical drawings of eyeglass frames, lens and optical devices by using CAD software
- Model eyeglass frames, lens and optical devices by using CAD software

4.3.Syllabus

- Thematic Block I: Optical Sector.
 - The optical Market in Spain
 - The structure of supply
- The marketing of eyeglass frames
- Thematic Block II: Online Optical Establishments.
 - Evaluation of design variables in web pages
 - Practical suggestions
- Thematic Block III: Design of Eyeglass Frames, Lens and Optical Devices.
 - The evolution of eyewear design
 - The design process
 - Eyeglass frame types
 - Eyeglass frame measurements
 - Facial measurements
 - Face shapes
 - Eyeglass frames: Choices and selection
 - Technical drawings of eyeglass frames, lens and optical devices
- Thematic Block IV: Optical Shop Design.
 - The corporate image
 - The localization
 - Establishment design

4.4.Course planning and calendar

4.5.Bibliography and recommended resources