

Academic Year/course: 2021/22

## 26830 - Graphic Tools and Optical Design

### Syllabus Information

**Academic Year:** 2021/22

**Subject:** 26830 - Graphic Tools and Optical Design

**Faculty / School:** 100 - Facultad de Ciencias

**Degree:** 297 - Degree in Optics and Optometry

**ECTS:** 6.0

**Year:** 3 and 4

**Semester:** Second semester

**Subject Type:** Optional

**Module:**

### 1. General information

### 2. Learning goals

### 3. Assessment (1st and 2nd call)

### 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**

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course will be provided on the first day of class or please refer to <https://ciencias.unizar.es/> and moodle website.

#### **4.5. Bibliography and recommended resources**

The bibliography can be consulted through the link <http://biblioteca.unizar.es/como-encontrar/bibliografia-recomendada>