

## 26816 - Clinical Optometry

### Información del Plan Docente

<b>Academic Year</b>	2016/17
<b>Academic center</b>	100 - Facultad de Ciencias
<b>Degree</b>	297 - Degree in Optics and Optometry
<b>ECTS</b>	10.0
<b>Course</b>	3
<b>Period</b>	Annual
<b>Subject Type</b>	Compulsory
<b>Module</b>	---

### **1.Basic info**

#### **1.1.Recommendations to take this course**

#### **1.2.Activities and key dates for the course**

### **2.Initiation**

#### **2.1.Learning outcomes that define the subject**

#### **2.2.Introduction**

### **3.Context and competences**

#### **3.1.Goals**

#### **3.2.Context and meaning of the subject in the degree**

#### **3.3.Competences**

#### **3.4.Importance of learning outcomes**

### **4.Evaluation**

### **5.Activities and resources**

#### **5.1.General methodological presentation**

#### **Introduction**

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### *Brief summary*

Clinical Optometry is a 10 ECTS credits matter. Constituted by a theoretical and practical activities. In the theoretical part the students should acquire the basics of optometry in a clinical environment while the practical part is devoted to teaching on the daily activities in real clinics. Finally the student should prepare a document about a specific topic on the matter under the supervision of a teacher

### *Contents*

Clinical exploration, anamnesis

Visual acuity measurement techniques

Objective and subjective refraction

Biomicroscopy

Keratometry

Endothelial evaluation

Perimetry, visual field

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Posterior pole photography

Ophthalmoscopy, retinography

Angiography

Optical coherence toography

Confocal laser

Polarimetry

*Methodology*

The learning process is based upon the following items :

1. Big group lectures
2. Small group workshops
3. Per-pair on clinical site practicing on simulated patient
4. Per-pair on clinical site practicing on real patient
5. Problem-based learning
6. Individual or/and small group tutorials
7. Open group debate

8. Individual research job and oral presentation

## **5.2.Learning activities**

### 1.- Activity I (3 ECTS). Theoretical items on Clinical Optometry

Based upon small-group highly-participative workshops. This activity is complemented by individualized tutorials and on-line discussion in open debate forums

Workshop 1. Anterior segment and general basic exploration

Workshop 2. Visual field

Workshop 3. Posterior segment exploration. Structural tests

Workshop 4. Statistics, introduction. Bibliography search

### 2.- Activity II (4 ECTS). Practical skills that allow the study to perform a complete professional practice

Based upon clinical practices. First small groups from two to three students will work on simulated patient, then on real patients. Practice reports will be made in groups and subsequently the information will be exchanged via ADD in an active on-line process

Workshop 1. Anterior segment and general basic exploration

Workshop 2. Visual field

Workshop 3. Posterior segment exploration. Structural tests

Workshop 4. Practical content review

Workshop 5. Practice on real patient

Workshop 6. Optical refraction

### 3.- Activity III (3 ECTS)

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Individual research project, whose subject will be chosen by the student and under teacher supervision. This activity should be prepared during the course and its goal is to achieve all the programmed competences being the student an active agent in his/her learning process. By the end of the course the results will be presented to all the students and teachers.

The evaluation of this project will be based on the adequacy of the subject, the student personal implication, bibliography and its scientific value.

### 5.3.Program

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### 5.4.Planning and scheduling

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Specific dates according to University and Science Faculty

The final project will be presented by the end of the course, the assistance will be mandatory for all the students as part of their learning activities

### 5.5. Bibliography and recommended resources

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|-----------|--|
| <b>BB</b> | Martín Herranz, Raúl. Manual de optometría / Raúl Martín Herranz, Gerardo Vecilla Antolínez Buenos Aires : Editorial Médica Panamericana, cop. 2011  |
| <b>BB</b> | Montés-Micó, Robert. Optometría : aspectos avanzados y consideraciones especiales / Robert Montés-Micó . Amsterdam, Barcelona, etc. : Elsevier, 2012 |
| <b>BB</b> | Montés-Micó, Robert. Optometría : principios básicos y aplicación clínica / Robert Montés-Micó Barcelona : Elsevier, 2011                            |