

## 26823 - Low Vision

### Información del Plan Docente

<b>Academic Year</b>	2017/18
<b>Faculty / School</b>	100 - Facultad de Ciencias
<b>Degree</b>	297 - Degree in Optics and Optometry
<b>ECTS</b>	6.0
<b>Year</b>	4
<b>Semester</b>	Second semester
<b>Subject Type</b>	Compulsory
<b>Module</b>	---

### **1.General information**

#### **1.1.Introduction**

##### **Aims and scope**

The subject of low vision is a four-month required subject, which is taught in the fourth year of Optometry degree, in the second four-month period.

This subject belongs to the module Optometry (60 ECTS) and consists of 6 ECTS credits. 1.2 credits will be held from the field of ophthalmology and 4.8 credits optical area.

The credits are allocated as followed:

- . Theoretical credits
- . Practical credits

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

It is designed so that students who have studied more general subjects (within the module of Optometry, Pathology and Ocular Pharmacology and Optics), can apply their knowledge and adapt to the special characteristics of these patients.

Studying this subject, students develop analytical skills and are able to acquire the knowledge, skills and abilities in the field of optics and optometry, which are invaluable in order to become an efficient professional.

#### **1.3.Context and importance of this course in the degree**

The increasing number of patients with low vision in today's society, mainly due to the increased life expectancy and to

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medical advances, makes specialized training necessary to meet their visual needs. Among the professionals involved in the care of these patients, the role of Optical optometrist is of great importance, hence the need for this course.

The subject of low vision is a very specific subject for the kind of patients we will treat.

### **1.4.Activities and key dates**

## **2.Learning goals**

### **2.1.Learning goals**

### **2.2.Importance of learning goals**

## **3.Aims of the course and competences**

### **3.1.Aims of the course**

### **3.2.Competences**

## **4.Assessment (1st and 2nd call)**

### **4.1.Assessment tasks (description of tasks, marking system and assessment criteria)**

## **5.Methodology, learning tasks, syllabus and resources**

### **5.1.Methodological overview**

**Learning process designed for this subject is based on:**

Master classes in big groups and seminars

Laboratory practices in small groups but carried out individually or part by part.

Exercises, questionnaires and individual cases resolution via moodle

Personalized tutorial

### **5.2.Learning tasks**

Credits

Knowing and be able to perform all test included in the low vision optometric exam.(1 Credit ECTS )

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Correct understanding of the optometric evaluation test (0,5 Credits ECTS )

Practical cases resolution(0,5 Credits ECTS )

Knowing the visual aids existing in the market, as well as their rehab application. (0,5 Credits ECTS )

Make a report about the low vision optometric attention given. (0,5 Credits ECTS )

Visual aids assembly and adaptation correct evaluation (1 Credits ECTS )

Be able to perform a low vision complete report and transmitting functional applications caused in the visual daily life of a patient.

### Practical sessions

Practices:

1. Measurement of AV by choice of tests, aids in different pathological conditions
2. Measuring the refractive objective for different eccentricities. Autorefractometre eccentricity. Off-axis and / or radical low vision retinoscopy simulators .)
3. Visual acuity at distance and near simulators and test different low vision sight. Contrast sensitivity in patients with low vision.
4. Objective and subjective in a patient with low vision refraction. Diagnostic procedures in low vision case management . Prismatic scanning based on the objectives.
5. Operation of optical aids. Spectacle mounted telescopes and microscopes
6. Actual patient.

### 5.3.Syllabus

#### Program

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Part of Optometry:

1. The patient with low vision. History.
2. Visual acuity in low vision.
3. Optometric evaluation of the patient with low vision.
4. Magnification.
5. Optics of low vision aids .
6. Low Vision Case Studies.

Part of Ophthalmology:

1. Low vision concept and epidemiology.
2. Age -related cataracts and low vision.
3. Other causes of low vision and glaucoma.
4. Low vision of macular origin, causes and prescription I and II.
5. Optical aids in low vision.
6. Effects of visual impairment in everyday life. Rehabilitation of the visually handicapped .

### 5.4.Course planning and calendar

### 5.5.Bibliography and recommended resources

**BB** Apuntes sobre rehabilitación visual / dirección, José Miguel Vila López . Madrid : ONCE, D.L. 1994 [Hay version electrónica. Ver URL]

**BB** Clínica de la baja visión / dirigida por Eleanor E. Faye ; con 17 autores colaboradores ; [versión española Ana M. Rubio y M. Dolores Cebrián Miguel] . [1ª ed.] Madrid : ONCE, D. L. 1997. [Hay version electrónica. Ver URL]

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**BB** Inde, Krister. El adiestramiento de la visión subnormal / Krister Inde, Orjan Bäckman ; [traducción, Pedro Zurita y Ma. Victoria Eiroa] . Madrid : ONCE, D.L. 1988 [Hay version electrónica. Ver URL]

**BB** Mehr, Edwin B.. El cuidado de la baja visión / Edwin B. Mehr y Allan N. Freid . [Madrid] : ONCE, D.L. 1992 [Hay version electrónica. Ver URL]

### LISTADO DE URLs:

Faye (1997) Clínica de la Baja Visión. Ed. ONCE -

[<http://www.once.es/serviciosSociales/descarga.cfm?idobjeto=69&idTipo=1&f=/ss>]

Inde (1988) El adiestramiento de la visión subnormal. Ed. ONCE -

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Vila López (1994) Apuntes sobre Rehabilitación Visual. Ed. ONCE -

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