



Course guide

370806 - PATER - (Ang) Patologia i Terapèutica Oculars

Last modified: 11/07/2023

Unit in charge: Terrassa School of Optics and Optometry
Teaching unit: 731 - OO - Department of Optics and Optometry.

Degree: MASTER'S DEGREE IN OPTOMETRY AND VISION SCIENCES (Syllabus 2022). (Compulsory subject).

Academic year: 2023 **ECTS Credits:** 3.5 **Languages:** Catalan, Spanish, English

LECTURER

Coordinating lecturer: Ventura Abreu, Nestor
Ondategui Parra, Juan Carlos <https://futur.upc.edu/JuanCarlosOndateguiParra>

Others: Ventura Abreu, Nestor

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

M-CE5. (ENG) Demostrar conocimientos de farmacología ocular en la práctica clínica. Identificar signos y síntomas de las patologías oculares más comunes que afectan a la sociedad, para informar y remitir el paciente al oftalmólogo; entre ellas: ojo seco, ojo rojo y/o doloroso, degeneración macular asociada a la edad, retinopatía diabética, glaucoma y miopía magna. Adquirir conocimientos sobre las técnicas de cirugía refractiva y ocular y los efectos de los distintos tipos láseres en las estructuras oculares. Aplicar los conocimientos ópticos de las lentes intraoculares, efectos fóticos, diseños en la práctica clínica, tanto para la selección de la lente más adecuada a cada paciente, como en el examen y seguimiento del paciente pseudofáquico.

Transversal:

M-CT4. (ENG) Uso solvente de los recursos de información. Gestionar la adquisición, la estructuración, el análisis y la visualización de datos e información en el ámbito de especialidad y valorar de forma crítica los resultados de dicha gestión.

Basic:

CB10. (ENG) Que los estudiantes posean las habilidades de aprendizaje que les permitan continuar estudiando de un modo que habrá de ser en gran medida autodirigido o autónomo.

TEACHING METHODOLOGY

- . Reading of didactic material, texts and articles related to the contents of the subject.
- . Carrying out deliverables.
- . Resolution of doubts through the Atenea virtual campus and email.

LEARNING OBJECTIVES OF THE SUBJECT

1. Identify the signs and symptoms of the most common ophthalmologic pathologies, in order to inform and refer the patient to the ophthalmologist.
2. Know the techniques of refractive and ocular surgery and the effects of different types of lasers on ocular structures.
3. Acquire and know how to apply knowledge of ocular pharmacology in clinical practice.



STUDY LOAD

Type	Hours	Percentage
Hours medium group	28,0	32.00
Self study	59,5	68.00

Total learning time: 87.5 h

CONTENTS

title english

Description:

content english

Full-or-part-time: 12h

Practical classes: 5h

Self study : 7h

title english

Description:

content english

Full-or-part-time: 11h

Practical classes: 5h

Self study : 6h

title english

Description:

content english

Full-or-part-time: 9h

Practical classes: 5h

Self study : 4h



title english

Description:

1. Vitreous detachment. Retinal rhegmatogenous detachment. Pathology of the vitreoretinal interface. Clinical findings and treatment.
2. Age-related macular degeneration (AMD I): description of the disease. Clinical findings.
3. AMD II: Evaluation and complementary tests.
4. AMD III. Treatment. AMD and lifestyle.

Specific objectives:

1. To know the most frequent symptoms of vitreous and retinal detachment. Referral guidelines
2. To identify the most frequent symptoms in patients with debut or follow-up of AMD.
3. To recognize the retinal alterations typical of AMD both with retinography and OCT.

Full-or-part-time: 14h 40m

Practical classes: 6h

Self study : 8h 40m

title english

Description:

content english

Full-or-part-time: 15h 40m

Practical classes: 7h

Self study : 8h 40m

ACTIVITIES

name english

Full-or-part-time: 12h 40m

Self study: 12h 40m

name english

Full-or-part-time: 12h 30m

Self study: 12h 30m

GRADING SYSTEM

- Evaluation throughout the four-month period on 1 group deliverable (15%) to choose from:
 - a. Ophthalmologic pathologies and low vision (and optical aids).
 - b. Sexually transmitted infections and ocular pathology.
 - c. Myopia in the XXI century
- Reading, presentation and critical analysis of a scientific article (15%)
- Partial test: clinical cases where students have to identify the pathology (30%).
- Final exam (40%)

In the event of suspending the subject, you will have the option to recover it through a reevaluation exam that will be carried out according to the general conditions established for each course by the UPC's Academic Regulations for Undergraduate and Master's Studies (NAGRAMA) and the particulars established by the FOOT with the following conditions:

1. You can only submit to the reevaluation if the overall grade obtained for the subject is equal to or higher than 3
2. Students with the grade Not Presented (NP) cannot take advantage of the reevaluation option.
3. The reevaluation will consist of a written exam (100%)

If the reevaluation exam is passed (with a score equal to or higher than 5) the final grade of the subject will always be 5. Otherwise, the highest grade between the previous evaluation and the reevaluation will be maintained.

EXAMINATION RULES.

If the student considers the decision to be incorrect, they can make a complaint through a request to the director or director or the dean of the teaching center and, if the answer does not satisfy them, they can file an appeal with the rector or rector.

The total or partial reproduction of academic or research papers, or their use for any other purpose, must have the explicit authorization of the authors.

It corresponds to the director or director or the dean or dean of the teaching center to resolve the allegations on aspects not included in the regulations.

BIBLIOGRAPHY

Basic:

- Hitchings, R. A; Hunter, P. A; Spalton, David J. Atlas de oftalmología clínica. 2a ed. Madrid [etc.]: Mosby/Doyma Libros, cop. 1995. ISBN 8480861231.
- Kanski, Jack J; Bowling, Brad. Kanski, oftalmología clínica: un enfoque sistemático. 8a ed. Barcelona: Elsevier, cop. 2016. ISBN 9788491130031.
- Yanoff, Myron; Duker, Jay S. Ophthalmology. 3rd ed. [S.I.]: Mosby, cop. 2009. ISBN 9780323043328.