

370705 - PATO - Ocular Pathology and Treatment

Coordinating unit:	370 - FOOT - Terrassa School of Optics and Optometry
Teaching unit:	731 - OO - Department of Optics and Optometry
Academic year:	2018
Degree:	MASTER'S DEGREE IN OPTOMETRY AND VISION SCIENCES (Syllabus 2012). (Teaching unit Compulsory)
ECTS credits:	3
Teaching languages:	Catalan, Spanish, English

Teaching staff

Coordinator: PERE PUJOL VIVES (<http://futur.upc.edu/PerePujolVives>)

Degree competences to which the subject contributes

Transversal:

1. SUSTAINABILITY AND SOCIAL COMMITMENT: Being aware of and understanding the complexity of the economic and social phenomena typical of a welfare society, and being able to relate social welfare to globalisation and sustainability and to use technique, technology, economics and sustainability in a balanced and compatible manner.

Teaching methodology

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Learning objectives of the subject

Train students to carry out tasks of the optometrist at the health system. Place the student in the context of the task at the optometrist care. Get assistance resources in the public health system in the field of primary care and specialized care circuits.

Knowledge of the principles and fundamentals of the complementary tests used in clinical practice. To know the patterns of normality results in tests conducted by the optometrist. Relate these patterns with the anatomical structures of the eye, visual pathways and its annexes.

To know the epidemiology of most prevalent ocular diseases, its risk factors and diagnostic methods. Get systemic and neurological pathologies that directly or indirectly affect the visual system.

Understand the nature of the pathological processes studied by the tests at optometrist care. To place complementary tests in the diagnostic process. Deeper understanding and interpretation of the exploratory techniques of eye disease. Know the indications and limitations.

To Distinguish signs and symptoms that indicate a serious eye disease that require specialized treatment. To Distinguish signs and symptoms that indicate a serious eye disease.

Get medical treatments, physical and surgical ophthalmology currently used in the treatment of ocular diseases. Acquiring a global vision of the eye surgical techniques used today and the new advances in this field.



370705 - PATO - Ocular Pathology and Treatment

Study load

Total learning time: 72h	Hours large group:	0h	0.00%
	Hours medium group:	8h 06m	11.25%
	Hours small group:	15h 54m	22.08%
	Guided activities:	0h	0.00%
	Self study:	48h	66.67%

370705 - PATO - Ocular Pathology and Treatment

Content

title english	Learning time: 4h Theory classes: 4h
Description: Principles and diagnostic patterns of the tomography	
Fluorescein angiography principles and patterns	Learning time: 2h Theory classes: 2h
Description: content english	
Interprtation of pathology on OCT	Learning time: 4h Theory classes: 2h Self study : 2h
Description: To know the pathologic patterns on OCT	
Retinal diseases	Learning time: 8h Theory classes: 4h Self study : 4h
Description: Learn more frequent retinal disorders and how these disorders affect visual acuity	
Neuroophthalmology	Learning time: 7h Theory classes: 2h Guided activities: 1h Self study : 4h
Description: To know the pathologies of the nervous system and its impact on the visual system .	

370705 - PATO - Ocular Pathology and Treatment

Visual field test	Learning time: 2h Theory classes: 1h Self study : 1h
Description: Know the principles of the use of computerized perimetry in the field of eye health	
Glaucoma	Learning time: 5h Theory classes: 2h Guided activities: 1h Self study : 2h
Description: Learn about glaucoma . Prevalence . Risk Factors . Diagnosis, management and prognosis.	
Ophthalmological manifestations of systemic diseases .	Learning time: 9h Theory classes: 4h Guided activities: 1h Self study : 4h
Description: Identify and know the repercussions in the visual system of systemic diseases .	
Ocular anexa	Learning time: 5h Theory classes: 2h Guided activities: 1h Self study : 2h
Description: Know the main diseases of the eye and its annexes involvement	

370705 - PATO - Ocular Pathology and Treatment

Red eye	Learning time: 3h Theory classes: 1h Guided activities: 1h Self study : 1h
Description: Know differential diagnosis of red eye.	

Qualification system

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Bibliography