26822 - Paediatric Ophthamology

Información del Plan Docente

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

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

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

The learning process designed for this subject is based on the following:

1. Lectures to the entire group

2. Learning based on clinical cases

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3. Seminars to the entire group of very specific issues of Paediatric Optometry, that students must have worked in advance

4. Practice through workshops in health centres (learning with simulated and real patients)

5. Clinical practice in health centres with specialist in Paediatric Optometry (learning with real patients)

5. individualized tutoring and/or in small groups

6. Proposals for supplementary information through the Moodle platform

5.2.Learning tasks

The program offered to the student to assist his/her learning achievements includes the following activities ...

1: Formative Activity 1 : Acquisition of basic knowledge about paediatric optometry (2.4 ECTS)

Methodology:

1. Introductory lectures to the entire group

2. Tutorials (small groups and/or individual)

2: Formative Activity 2: Critical review of important issues in Paediatric Optometry (0.6 ECTS)

Methodology:

1. Seminars

2. Individual and team work

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3: Formative Activity 3: Clinical experience in Paediatric Optometry (3 ECTS)

Methodology:

1. Clinical practice and workshops in medical centres

2. Problem-based learning

5.3.Syllabus

The academic program includes the following units:

I. Organic and functional development of the visual system:

Unit 1: Organizational development of the visual system

Unit 2: Functional development of the visual system

II. Visual exam in paediatric patient:

Unit 3: Anamnesis and visual screening in school age

Unit 4: Assessment of visual acuity

Unit 5: Preliminary tests

Unit 6: Assessment of refractive error

Unit 7: Extrinsic ocular motility and binocularity exam

Unit 8: Evaluation of eye health and electrophysiological tests

Unit 9: Visual integration exam

III. Optometric paediatric epidemiology:

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Unit 10: Characteristics and epidemiology of paediatric visual pathology

IV. Ocular pathology in childhood:

Unit 11: Refractive disorders in childhood

Unit 12: Amblyopia

Unit 13: Non-strabismic binocular vision disorders

Unit 14: Strabismic binocular vision disorders I

Unit 15: Strabismic binocular vision disorders II

Unit 16: Neonatal ocular pathology

Unit 17: Paediatric ocular pathology

Unit 18: Cerebral visual dysfunction

V. Optical correction and visual therapy in childhood:

Unit 19: Optical correction in children

Unit 20: Low vision in paediatric patients

Unit 21: Contact lenses in childhood

Unit 22: Visual therapy in childhood

VI. Ergonomics:

Unit 23: Paediatric visual ergonomics

VII. Vision and Learning:

Unit 24: Vision and Learning

5.4.Course planning and calendar

Schedule of sessions and presentation of works

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The exact dates of beginning and end of the teaching activities are laid down generally by the University or by the Faculty of Sciences.

The lectures will take place on Friday mornings from 8.00 to 9.00 am.

Seminars, workshops and practical classes will be held, and their dates will be duly reported in the Moodle platform for the course. With the contents of every workshop and practice each student will develop a portfolio about their learning process and achivements.

5.5.Bibliography and recommended resources

BB	Creig S. Hoyt, David Taylor. Pediatric Ophthalmology and Strabismus. Elsevier
BB	Optometría pediátrica / Antonio López Alemany, editor Xátiva : Ulleye, D. L. 2007
BB	Visual development, diagnosis, and treatment of the pediatric patient / [editor] Robert H. Duckman Philadelphia : Lippincott Williams & Wilkins, cop. 2006
BC	Dutton, G. . Cerebral visual impairment in children. Springer