

26822 - Paediatric Ophthalmology

Syllabus Information

Academic Year: 2019/20

Subject: 26822 - Paediatric Ophthalmology

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.Aims of the course

1.2.Context and importance of this course in the degree

1.3.Recommendations to take this course

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

4.Methodology, learning tasks, syllabus and resources

4.1.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
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

4.2.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

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

Methodology:

1. Clinical practice and workshops in medical centres
2. Problem-based learning

4.3.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:

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

4.4.Course planning and calendar

Schedule of sessions and presentation of works

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 achievements.

4.5.Bibliography and recommended resources

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