

26822 - Paediatric Ophthalmology

Syllabus Information

Academic year: 2023/24

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

The general objective of the subject is to enable the student to detect and address visual problems that may appear throughout development, from birth to adulthood, in a practical and coordinated way with the rest of the professionals in charge of the child's health and development.

The specific objectives of the subject are:

- To learn about the visual development of children throughout childhood.
- To be able to perform an optometric examination adapted to the age of each child, as well as to their symptomatology and pathologies
- To know how to interpret the results of the optometric examination according to the child's age.
- To know the main visual pathologies of childhood, how to identify them and to know their initial management.

The student must have assimilated the competences corresponding to the Basic, Optics and Optometry Modules in order to be able to integrate and direct them to paediatric optometry.

These approaches and objectives are aligned with the following Sustainable Development Goals (SDGs) of the United Nations Agenda 2030 (<https://www.un.org/sustainabledevelopment/es/>), in such a way that the acquisition of the learning results of the subject provides training and competence to contribute to some extent to their achievement:

Goal 3: Health and wellness

2. Learning results

Contribute to the maintenance and improvement of the health and visual quality of the population.

Perform visual examinations effectively in each of its phases: anamnesis, choice and performance of diagnostic tests, prognosis, choice and execution of treatment

Refer the patient to other professionals with the corresponding report, establishing the levels of collaboration that guarantee the best possible care for the patient.

Ability to measure, interpret and treat refractive defects.

Know and apply visual screening techniques applied to different populations.

Know the fundamentals and techniques of health education and the main generic health programs to which the optometrist should contribute from their field of action.

Understand the anatomical and functional changes that occur in the visual system from birth to adulthood and, in this way, understand visual maturity appropriate for each age group.

Conduct an anamnesis and an optometric examination oriented to a paediatric patient.

Correctly interpret the results of an optometric examination at any age of a child.

Identify the pathology criteria and how to act upon them.

Know the most relevant pathologies of the visual system in childhood, both for their prevalence and their implications, as well as their management and main therapeutic alternatives.

Understand and value the scientific productions that support the professional development of the Optics Graduate. Analyse and extract information from specialized scientific articles.

Develop skills to learn autonomously, analyse and solve problems, reason critically, analyse and synthesize, and adapt to new situations

Master terminology and knowledge sufficient to interact effectively with other professionals.

Personal competencies

- Search and critical reasoning of scientific information
- Teamwork in multidisciplinary environments
- Development of interpersonal skills
- Ethical commitment

3. Syllabus

Program of theoretical classes:

- I. Organic and functional development of the visual system
- II. Visual examination in paediatric patients
- III. Paediatric Optometric Epidemiology
- IV. Ocular and general paediatric pathology
- V. Optical compensation and vision therapy in childhood
- VI. Ergonomics
- VII. Vision and learning

Workshop program:

- Communication skills and anamnesis
- Visual therapy (2)
- Oriented optometric examination
- Clinical Cases in Paediatric Optometry

4. Academic activities

1. Activities in large groups (0,96 ECTS)

Face-to-face classes for the entire group: Theoretical classes based on the teaching materials incorporated by each teacher to the Moodle platform.

Interactions between students and teachers, and students with each other, will be facilitated in all cases.

2. Small Group Activities (1,58 ECTS)

- Clinical skills workshops in a health care centre (learning with real and/or simulated patients) (0.6 ECTS)
- Hospital internship in pairs with a specialist in Paediatric Optometry (learning with a real patient) (0,6 ECTS)
- Discussion of questions on paediatric optometry that the student must initially work on individually (0.21 ECTS).
- Individualized and/or small group tutorials with the teacher (0,17 ECTS)

5. Assessment system

1. Evaluation of face-to-face students (continuous evaluation):

1.1. Written test evaluation:

It will consist of a theoretical part with multiple-choice questions and another part with a clinical case. This test will constitute 70% of the final grade, provided that its grade exceeds 5 points out of a possible 10.

1.2. Workshop evaluation:

In order to pass this part, the student will not be allowed to miss any workshop without justification during the term. It represents 10% of the total grade of the subject..

1.3. Evaluation of clinical practices:

To pass this part, the student may not miss more than one of the proposed practices. It represents 10% of the total grade of the subject.

1.4- Evaluation of information search activities:

It will be evaluated on the basis of the student's active participation and the results of their research.

2. Evaluation for students who do not opt for continuous evaluation or who have not passed the subject in continuous evaluation:

2.1. Written test evaluation: As previously described. It will account for 70% of the final grade.

2.2. Evaluation of workshops, clinical practices and information-seeking activities: Each part will account for 10% of the final grade.

Students who have not passed the minimum attendance to any of these activities or do not obtain more than 0.5 points out of 1, will be evaluated in the final exam by means of one or two short questions related to the content of the activities