Universidad Zaragoza

Academic Year/course: 2024/25

26811 - Optometry

Syllabus Information

Academic year: 2024/25
Subject: 26811 - Optometry
Faculty / School: 100 - Facultad de Ciencias
Degree: 297 - Degree in Optics and Optometry
ECTS: 6.0
Year: 2
Semester: First semester
Subject type: Compulsory
Module:

1. General information

The main objective of the subject is to train students to perform examinations and analysis of the visual function, as well as to treat refractive and functional problems, using the means proper to an optometric office

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.

2. Learning results

- To know symptoms and signs of the different types of anomalies affecting monocular vision.
- To be able to foresee the impact of different refractive defects on visual acuity.
- To know how to describe the fundamentals of the methods and techniques necessary to assess the monocular vision status of apatient.
- To know how to determine and specify appropriate treatments for the correction of monocular vision anomalies.
- To know the fundamentals of diagnostic techniques of visual health.
- To know how to interpret the results of diagnostic tests on visual health problems.

3. Syllabus

Item 0: Concept of Optometry and its professional framework.

Topic 1: Visual acuity, contrast sensitivity and colour vision. Definitions and evaluation methods.

Topic 2: Near vision, accommodation and presbyopia.

Topic 3: Refractive states of the eye. Definition and classification of ametropias.

Topic 4: Assessment of refractive status by objective methods. Retinoscopy and automated refractometry techniques.

Topic 5: Characterization of the ocular surface. Keratometry. Corneal topography measurement techniques.

Topic 6: Assessment of refractive status by subjective testing.

Topic 7: Ophthalmoscopy and ocular biomicroscopy examination techniques.

Topic 8: Complementary optometric tests: tonometry, campimetry, etc.

Topic 9: Ocular aberrometry techniques.

Topic 10: Optometric examination and treatment of functional abnormalities of monocular vision.

4. Academic activities

Master classes: 37.50 hours

Theoretical sessions in which the contents of the subject are explained.

Problems and cases: 22.50 hours

Problem solving and case studies from the optometric point of view.

Teaching assignments: 24.75 hours

Elaboration of monographic works on the topics proposed in the subject

Personal study. 60 hours

Assessment tests. 5.25 hours

5. Assessment system

The subject will be evaluated in the continuous evaluation mode by means of the following activities:

- Midterm exams (20% of the final grade). It will consist of a written exam, with a format similar to that of the final exam, on questions and practical cases proposed, referring to the topics developed up to the moment of the exam.
- Monographic work on topics of the subject (20% of the final grade). Elaboration and presentation of a topic to be proposed in the second half of the teaching period, to be presented at the end of that period.
- Final test (60% of the final grade). It will consist of a written exam including theoretical and practical questions on the totality of the topics of the subject

The subject will be evaluated in the modality of a single test, when the previous evaluation activities are not carried out by means of the following activities:

- Final test (100% of the final grade). The test will consist of a written exam including questions of a theoretical nature and practical questions on the totality of the topics of the subject.

6. Sustainable Development Goals

3 - Good Health & Well-Being
4 - Quality Education