UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Physical Techniques for General Optometry 1

2223-2-E3002Q010-E3002Q024M

Aims

Students must understand the neurophysiological mechanisms that regulate the visual system, know how to investigate and measure them using optometric techniques and interpret the results obtained to establish the correct intervention technique.

Contents

Functioning of visual system skills

Measurement techniques of various visual abilities (refraction, accomodation, ocular motility, binocularity)

Data analysis to define functioning of each individual optometric case

Establish the most effective treatment modality based on the results obtained

Detailed program

Visual acuity and contrast sensitivity

Retinoscopy techniques

Refraction deficit

Accomodation, convergence, Phorias and AC/A ratio

Binocularity and ocular movement

Anamnestic techniques

Preliminary test of visual exam

Phoropter visual analysis and open space analysis

Prerequisites

Visual system anatomy knowledge

Optics and ophtalmic knowledge

Teaching form

frontal lessons in classroom

Textbook and teaching resource

W. Benjamin, "Borish's Clinical Refraction"

T. Grosvenor, "Primary Care Optometry"

M. Scheiman, B. Wick, "Clinical Management of Binocular Vision"

D. Elliott, "Clinical Procedures in Primary Eye Care"

A. Rossetti, P. Gheller, "Manuale di Optometria e Contattologia"

G. Paliaga, "L'esame del Visus"

G. Paliaga, "I Vizi di Refrazione"

Semester

Second academic year divided into two modules for one semester each

Assessment method

A partial written exam is provided and the final result will be a mean with fisical technics of general optometry 2nd module.

Closed and open questions, and eventually a small case analysis. It is requested theoretical knowledge of visual function and discuss of simulated clinical cases to provide the correct diagnosis and treatment

Office hours

To establish directly with the professor

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING