



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Tecniche Fisiche per L'optometria Generale 1

2425-2-E3002Q010-E3002Q024M

---

#### Aims

Students must understand the optometric and 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, accommodation, 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

Accommodation, 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**

42 hours of lectures in-person

## **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**

first semester

## **Assessment method**

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

Closed and open questions, and eventually a small case analysis. Theoretical knowledge of the mechanisms of visual function and the capability to discuss simulated clinical cases to provide the correct diagnosis and treatment are required.

## **Office hours**

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

---