



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Physical Techniques for General Optometry 1

2526-2-E3002Q024M

Aims

The aims fall within the area of "Professional Training" and refer to the following Dublin descriptors:

1- Knowledge and Understanding

- provide knowledge and skills related to the optometric and neurophysiological mechanisms that regulate the visual system, provide knowledge on how to investigate and measure them through optometric techniques, and how to interpret the results obtained in order to establish the correct intervention technique.

2- Applying Knowledge and Understanding

- develop the skills needed to conduct optometric visual analyses
- provide scientific and technical notions to apply the acquired knowledge during the conduction of optometric visual analyses

3- Making Judgements

- develop the ability for autonomous reflection on the program content

4- Communication Skills

- acquire communication skills within the scope of the course content

5- Learning Skills

- develop the ability for autonomous reflection on the program content with the aim of acquiring learning skills for future developments in the field

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 ophthalmic 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 the second part of the same course.

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

by appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING
