



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Optics of The General Contactology 2

2526-2-E3002Q027M

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 to independently manage the application of custom and specialty contact lenses
- Provide knowledge related to contact lens fitting and potential clinical complications

2 – Applying knowledge and understanding

- Develop the ability to use techniques for fitting and monitoring contact lenses
- Provide scientific and technical knowledge in the field of contact lenses for the clinical and interpretative use of both basic and advanced instrumental technologies

3 – Making judgements

- Develop the ability to reflect independently on the course content

4 – Communication skills

- Acquire communication skills related to the course content

5 – Learning skills

- Develop the ability to reflect independently on the course content in order to acquire learning skills with a view to future developments in the field

Contents

Custom and specialty contact lenses

Detailed program

RGP contact lenses

Basic requirements, RGP materials and geometries, corneal profile, fluorescein patterns, general fitting principles of corneal lenses, procedures and fitting criteria, procedures to refit subjects with PMMA, identification e choice of materials.

Correction of astigmatism with RGP contact lenses.

Properties of materials. Indications and criteria for the fit of RGP toric contact lenses. The geometry of a rigid toric contact lens, optical considerations and calculation of the final lens.

Correction of presbyopia with RGP contact lenses

Structure and properties of materials. Preliminary assessment and selection of the wearer. Corrective options of presbyopia with contact lenses. Bifocal and multifocal RGP contact lenses and their geometries.

Correction of keratoconus and irregular astigmatism with contact lenses

Incidence of keratoconus and irregular astigmatism, signs and symptoms, management, corrective options with RGP corneal lenses, toric lenses, scleral lenses, high hydration silicone hydrogel lenses,

contact lens fitting in Post-keratoplasty

The post-keratoplasty cornea, optical considerations in the post-surgical application.

Contact lens fitting in post-refractive surgery conditions; corneal profile after refractive surgery, RGP lenses fitting. Orthokeratology, Patient selection, inverse geometries and their fitting process.

Pediatric contactology, Indications and fitting criteria.

RGP contact lenses complications

classification and management of complications, classification systems, compliance and prevention grading scales complications Digital acquisition systems.

Clinical research, methodology and statistics in contact lens fitting.

Prerequisites

Attendance of the first part of the course (Contact Lenses 1).

Teaching form

lectures with slides and video materials.

lectures in Italian

Teaching materials in Italian and English.

Textbook and teaching resource

Clinical Manual of Contact Lenses Fifth Edition

authors: Edward S. Bennet and Vinita Allee Henry

Wolters publisher Kluwer Lippincott Williams & Wilkins

materials provided by the lecturer

Semester

second semester

Assessment method

unique examination comprehensive of modules 1 and 2.

Written part consisting of:

CLOSED ANSWER TEST (Multiple choice)

EXERCISES (answer to simple questions that require the application of specific principles or techniques)

Compulsory oral exam after positive result in the written part

The oral exam will deal with the topics covered during the development of modules 1 and 2

Office hours

by appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING
