

Course guide

370028 - CONAPLIC - Applied Contact Lens

Last modified: 22/03/2024

Unit in charge: Terrassa School of Optics and Optometry
Teaching unit: 731 - OO - Department of Optics and Optometry.

Degree: BACHELOR'S DEGREE IN OPTICS AND OPTOMETRY (Syllabus 2020). (Compulsory subject).

Academic year: 2023 **ECTS Credits:** 6.0 **Languages:** Catalan

LECTURER

Coordinating lecturer: Joan Gispets Parcerisas, Professor Titular d'Universitat. <https://futur.upc.edu/1002618>
Gonzalez Lopez, Enrique

Others: Solà Parés, Ramon

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

CE11. Describe the physical and chemical properties of the materials used in the field of optics and optometry.

CE23. Describe the properties of the types of contact lenses and ocular prostheses. Describe the geometry and physical-chemical properties of contact lenses and associate them with specific ocular and refractive characteristics. Identify and use clinical and instrumental protocols associated with fitting contact lenses. Identify the solutions used for maintenance, diagnosis and treatment and associate them with lenticular and ocular characteristics. Apply the clinical procedures associated with contact lens fitting to various refractive and ocular dysfunctions. Apply the controlled modification techniques of corneal topography with the use of contact lenses. Detect, assess and resolve abnormalities associated with the use of contact lenses. Adapt contact lenses and ocular prostheses to improve vision and the outer appearance of the eye.

Generical:

CG1. Demonstrate knowledge of, design and apply prevention and maintenance programmes relating to the population's visual health.

CG2. Carry out each stage of visual examinations effectively: medical history, selection and implementation of diagnostic tests, establishment of a prognosis, selection and execution of treatment and, if necessary, preparation of referral reports that establish levels of collaboration with other professionals, to ensure the best possible care for the patient.

CG4. Critically reflect on the clinical, scientific, ethical and social issues involved in the professional practice of optometry, understand the scientific foundations of optics and optometry and critically evaluate terminology, clinical trials and research methods related to optics and optometry.

CG8. Plan and carry out research projects that contribute to the production of knowledge in the field of optometry and disseminate this scientific knowledge via the typical communication channels.

CG13. Demonstrate and interpret methods for critical analysis and theory development and apply them to the field of optometry.

Transversal:

CT3. Teamwork. To be able to work as a member of a multidisciplinary team, either as a base member or undertaking managerial decisions aiming at developing projects from a practical and responsible standpoint, adopting commitments given the available resources

CT7. Foreign language. Demonstrate knowledge of a foreign language, preferably English, at an oral and written level that is consistent with graduates' future needs.

TEACHING METHODOLOGY



LEARNING OBJECTIVES OF THE SUBJECT

translation

STUDY LOAD

Type	Hours	Percentage
Hours small group	60,0	40.00
Self study	60,0	40.00
Hours medium group	30,0	20.00

Total learning time: 150 h

CONTENTS

title english

Description:

content english

Related competencies :

CE11. Describe the physical and chemical properties of the materials used in the field of optics and optometry.

CE23. Describe the properties of the types of contact lenses and ocular prostheses. Describe the geometry and physical-chemical properties of contact lenses and associate them with specific ocular and refractive characteristics. Identify and use clinical and instrumental protocols associated with fitting contact lenses. Identify the solutions used for maintenance, diagnosis and treatment and associate them with lenticular and ocular characteristics. Apply the clinical procedures associated with contact lens fitting to various refractive and ocular dysfunctions. Apply the controlled modification techniques of corneal topography with the use of contact lenses. Detect, assess and resolve abnormalities associated with the use of contact lenses. Adapt contact lenses and ocular prostheses to improve vision and the outer appearance of the eye.

Full-or-part-time: 30h

Theory classes: 6h

Laboratory classes: 6h

Self study : 18h



title english

Description:

content english

Related competencies :

CE11. Describe the physical and chemical properties of the materials used in the field of optics and optometry.

CE23. Describe the properties of the types of contact lenses and ocular prostheses. Describe the geometry and physical-chemical properties of contact lenses and associate them with specific ocular and refractive characteristics. Identify and use clinical and instrumental protocols associated with fitting contact lenses. Identify the solutions used for maintenance, diagnosis and treatment and associate them with lenticular and ocular characteristics. Apply the clinical procedures associated with contact lens fitting to various refractive and ocular dysfunctions. Apply the controlled modification techniques of corneal topography with the use of contact lenses. Detect, assess and resolve abnormalities associated with the use of contact lenses. Adapt contact lenses and ocular prostheses to improve vision and the outer appearance of the eye.

CT3. Teamwork. To be able to work as a member of a multidisciplinary team, either as a base member or undertaking managerial decisions aiming at developing projects from a practical and responsible standpoint, adopting commitments given the available resources

Full-or-part-time: 30h

Theory classes: 6h

Laboratory classes: 6h

Self study : 18h

title english

Description:

content english

Related competencies :

CE11. Describe the physical and chemical properties of the materials used in the field of optics and optometry.

CE23. Describe the properties of the types of contact lenses and ocular prostheses. Describe the geometry and physical-chemical properties of contact lenses and associate them with specific ocular and refractive characteristics. Identify and use clinical and instrumental protocols associated with fitting contact lenses. Identify the solutions used for maintenance, diagnosis and treatment and associate them with lenticular and ocular characteristics. Apply the clinical procedures associated with contact lens fitting to various refractive and ocular dysfunctions. Apply the controlled modification techniques of corneal topography with the use of contact lenses. Detect, assess and resolve abnormalities associated with the use of contact lenses. Adapt contact lenses and ocular prostheses to improve vision and the outer appearance of the eye.

Full-or-part-time: 30h

Theory classes: 6h

Practical classes: 6h

Self study : 18h



title english

Description:

content english

Specific objectives:

1. Características refractivas y de topografía corneal del paciente operado de cirugía refractiva.
2. Lentes blandas en pacientes operados de cirugía refractiva.
3. Lentes RPG corneales en pacientes operados de cirugía refractiva.
4. Lentes RPG supracorneales en pacientes operados de cirugía refractiva.
5. Lentes híbridas en pacientes operados de cirugía refractiva.
6. Protocolo de adaptación de LC en pacientes operados de cirugía refractiva.

Related competencies :

CE23. Describe the properties of the types of contact lenses and ocular prostheses. Describe the geometry and physical-chemical properties of contact lenses and associate them with specific ocular and refractive characteristics. Identify and use clinical and instrumental protocols associated with fitting contact lenses. Identify the solutions used for maintenance, diagnosis and treatment and associate them with lenticular and ocular characteristics. Apply the clinical procedures associated with contact lens fitting to various refractive and ocular dysfunctions. Apply the controlled modification techniques of corneal topography with the use of contact lenses. Detect, assess and resolve abnormalities associated with the use of contact lenses. Adapt contact lenses and ocular prostheses to improve vision and the outer appearance of the eye.

Full-or-part-time: 10h

Theory classes: 2h

Laboratory classes: 2h

Self study : 6h

title english

Description:

content english

Related competencies :

CG13. Demonstrate and interpret methods for critical analysis and theory development and apply them to the field of optometry.
CE11. Describe the physical and chemical properties of the materials used in the field of optics and optometry.

Full-or-part-time: 10h

Theory classes: 2h

Practical classes: 2h

Self study : 6h

title english

Description:

content english

Full-or-part-time: 5h

Theory classes: 1h

Laboratory classes: 1h

Self study : 3h



title english

Description:

content english

Related competencies :

CE23. Describe the properties of the types of contact lenses and ocular prostheses. Describe the geometry and physical-chemical properties of contact lenses and associate them with specific ocular and refractive characteristics. Identify and use clinical and instrumental protocols associated with fitting contact lenses. Identify the solutions used for maintenance, diagnosis and treatment and associate them with lenticular and ocular characteristics. Apply the clinical procedures associated with contact lens fitting to various refractive and ocular dysfunctions. Apply the controlled modification techniques of corneal topography with the use of contact lenses. Detect, assess and resolve abnormalities associated with the use of contact lenses. Adapt contact lenses and ocular prostheses to improve vision and the outer appearance of the eye.

Full-or-part-time: 15h

Theory classes: 3h

Practical classes: 3h

Self study : 9h

title english

Description:

content english

Full-or-part-time: 20h

Theory classes: 4h

Laboratory classes: 4h

Self study : 12h

ACTIVITIES

name english

Full-or-part-time: 8h

Theory classes: 3h

Self study: 5h

name english

Full-or-part-time: 6h

Theory classes: 6h



name english

Related competencies :

CE23. Describe the properties of the types of contact lenses and ocular prostheses. Describe the geometry and physical-chemical properties of contact lenses and associate them with specific ocular and refractive characteristics. Identify and use clinical and instrumental protocols associated with fitting contact lenses. Identify the solutions used for maintenance, diagnosis and treatment and associate them with lenticular and ocular characteristics. Apply the clinical procedures associated with contact lens fitting to various refractive and ocular dysfunctions. Apply the controlled modification techniques of corneal topography with the use of contact lenses. Detect, assess and resolve abnormalities associated with the use of contact lenses. Adapt contact lenses and ocular prostheses to improve vision and the outer appearance of the eye.

Full-or-part-time: 30h
Laboratory classes: 30h

name english

Related competencies :

CE23. Describe the properties of the types of contact lenses and ocular prostheses. Describe the geometry and physical-chemical properties of contact lenses and associate them with specific ocular and refractive characteristics. Identify and use clinical and instrumental protocols associated with fitting contact lenses. Identify the solutions used for maintenance, diagnosis and treatment and associate them with lenticular and ocular characteristics. Apply the clinical procedures associated with contact lens fitting to various refractive and ocular dysfunctions. Apply the controlled modification techniques of corneal topography with the use of contact lenses. Detect, assess and resolve abnormalities associated with the use of contact lenses. Adapt contact lenses and ocular prostheses to improve vision and the outer appearance of the eye.

Full-or-part-time: 0h 20m
Theory classes: 0h 20m

name english

Full-or-part-time: 2h
Theory classes: 2h

name english

Full-or-part-time: 1h
Theory classes: 1h

GRADING SYSTEM



BIBLIOGRAPHY

Basic:

- Hom, Milton M; Bruce, Adrian S. Manual de prescripción y adaptación de lentes de contacto. 3a ed. Barcelona [etc.]: Elsevier Masson, cop. 2007. ISBN 9788445817605.
- Bennett, Edward S. Rigid gas-permeable contact lenses. New York: Professional Press : Fairchild, cop. 1986. ISBN 0878730575.
- Efron, Nathan. Contact lens complications [on line]. 2nd ed. Edinburgh [etc.]: Butterworth Heinemann, 2010 [Consultation: 19/06/2023]. Available on: <https://www.sciencedirect-com.recursos.biblioteca.upc.edu/book/9780702076114>. ISBN 9780750655347.
- González-Cavada, Javier. Atlas de lámpara de hendidura y lentes de contacto. 2ª ed. Madrid: Grupo ICM de Comunicación, 2015. ISBN 97884933965686.
- Martín Herranz, Raúl. Contactología aplicada : un manual práctico para la adaptación de lentes de contacto. Madrid: Imagen y Comunicación Multimedia, 2005. ISBN 8493356956.