# Course guide

## 370028 - CONAPLIC - Applied Contact Lens

**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:** 2022  
**ECTS Credits:** 6.0  
**Languages:** Catalan, Spanish

## LECTURER

**Coordinating lecturer:** Joan Gispets Parcerisas, Professor Titular d'Universitat. https://futur.upc.edu/1002618

## 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.

### General:
- 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

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Guided activities</td>
<td>1,0</td>
<td>0.66</td>
</tr>
<tr>
<td>Hours medium group</td>
<td>30,0</td>
<td>19.87</td>
</tr>
<tr>
<td>Hours small group</td>
<td>60,0</td>
<td>39.74</td>
</tr>
<tr>
<td>Self study</td>
<td>60,0</td>
<td>39.74</td>
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Total learning time: 151 h

CONTENTS

<table>
<thead>
<tr>
<th>title english</th>
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</thead>
<tbody>
<tr>
<td>Description:</td>
</tr>
<tr>
<td>content english</td>
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<tr>
<td>Related competencies:</td>
</tr>
<tr>
<td>CE11. Describe the physical and chemical properties of the materials used in the field of optics and optometry.</td>
</tr>
<tr>
<td>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.</td>
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<tr>
<td>Full-or-part-time: 30h</td>
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<tr>
<td>Theory classes: 6h</td>
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<tr>
<td>Laboratory classes: 6h</td>
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<tr>
<td>Self study: 18h</td>
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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
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

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

Full-or-part-time: 5h
Theory classes: 1h
Laboratory classes: 1h
Self study: 3h
**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

**ACTIVITIES**

<table>
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<tr>
<td><strong>Full-or-part-time:</strong> 8h</td>
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<tr>
<td>Theory classes: 3h</td>
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<td>Self study: 5h</td>
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<table>
<thead>
<tr>
<th>name english</th>
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<tbody>
<tr>
<td><strong>Full-or-part-time:</strong> 6h</td>
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<tr>
<td>Theory classes: 6h</td>
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</table>
**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

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**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

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**Related competencies:**
Full-or-part-time: 2h
Theory classes: 2h

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**Related competencies:**
Full-or-part-time: 1h
Theory classes: 1h

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**GRADING SYSTEM**
BIBLIOGRAPHY

Basic: