COURSE DATA

DATA SUBJECT

Code: 34306
Name: Contactology II
Cycle: Undergraduate Studies
ECTS Credits: 4.5
Academic year: 2026-27

STUDY (S)

Degree	Center	Acad. year	Period
1207 - Degree in Optics and Optometry	Facultat de Física	3	Second quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
1207 - Degree in Optics and Optometry	Contactology	COMPULSORY

COORDINATION

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SUMMARY

The main objective of Contactology II is to provide specific knowledge for contact lens fitting in special cases and to understand the alterations and complications that may be associated with contact lens wear. Therefore, this course allows students to complete their training in the competences required of primary visual health care professionals and, at the same time, to integrate the knowledge acquired in Contactology and Contactology Practice, approaching contact lens fitting in a comprehensive way. For this reason, Contactology II represents the culmination of the learning process in contactology within basic training.

As reflected in the syllabus, the course is aimed at assessing aspects such as contact lens fitting in irregular corneas or myopia control using contact lenses, as well as analysing how these fittings influence ocular physiology. A complete evaluation of contact lens fitting in special cases will be carried out, from the clinical protocol to be followed to the assessment and decision-making process in the presence of alterations or complications derived from contact lens wear.

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

There are no specified enrollment restrictions with other subjects of the curriculum.

OTHER REQUIREMENTS

It is recommended that students have previously taken subjects related to Contactology, such as Contactology and Contactology Practice, as well as Optometry subjects, especially Optometry I, Optometry II and Optometry III. It is also recommended that students have taken subjects from the basic training module, such as Physics, Geometrical Optics, Anatomy and Physiological Optics, and subjects from the Optics module, such as Optical and Optometric Instruments and Ophthalmic Optics.

COMPETENCES / LEARNING OUTCOMES

1207 - Degree in Optics and Optometry

Being able to gather and interpret relevant data to make judgments.

Being able to transmit information, ideas, problems and solutions to both a specialized and non-specialized audience.

Development of learning skills necessary to undertake further studies with a high degree of autonomy.

Knowing how to apply the knowledge acquired to professional activity, knowing how to solve problems and develop and defend arguments.

To adapt contact lenses and ocular prostheses to improve vision and the external appearance of the eye.

To apply techniques of controlled modification of the corneal topography with the use of contact lenses.

To apply the clinical procedures associated with the adaptation of contact lenses to different refractive and ocular dysfunctions.

To detect, to assess and to solve anomalies associated with the wearing of contact lenses.

To have and to understand the fundamentals of Optometry for its correct clinical and healthcare application.

To know and to use clinical and instrumental protocols in the exploration associated with the adaptation of contact lenses.

To know the applicable legislation in professional practice, with special attention to matters of gender equality between men and women, human rights, solidarity, sustainability, protection of the environment and promotion of the culture of peace.

To know the geometry and physicochemical properties of the contact lens and to associate them with the ocular and refractive characteristics.

To know the maintenance, diagnosis and treatment solutions and to associate them with the lenticular and ocular characteristics.

To know the properties of the types of contact lenses and ocular prostheses.

DESCRIPTION OF CONTENTS

1. Fitting of special contact lenses

This unit addresses contact lens fitting in specific clinical situations such as presbyopia, irregular ocular surfaces or myopia control. Selection, fitting and follow-up criteria are analysed through the discussion of real clinical cases in practical seminars.

Topic 1: Fitting of contact lenses for presbyopia
Topic 2: Fitting of contact lenses on irregular ocular surfaces
Topic 3: Fitting of contact lenses for myopia control
Seminar 1: Analysis and resolution of clinical cases
Seminar 2: Analysis and resolution of clinical cases
Seminar 3: Analysis and resolution of clinical cases

2. Complications associated with contact lens wear

This unit studies complications derived from contact lens wear, as well as prevention, diagnosis and clinical management strategies. Case discussions allow students to develop clinical criteria for managing common signs and symptoms.

Topic 4: Prevention of complications associated with contact lens wear
Topic 5: Complications associated with contact lens wear
Seminar 1: Analysis and resolution of clinical cases
Seminar 2: Analysis and resolution of clinical cases

3. Practical sessions

This practical unit is aimed at the acquisition of clinical competences in contact lens fitting in different contexts. Students will apply specific protocols in preliminary testing, multifocal fitting, irregular corneas, orthokeratology and myopia control.

Practice 1: Preliminary tests for contact lens fitting
Practice 2: Fitting of soft multifocal contact lenses
Practice 3: Fitting of contact lenses on irregular corneas
Practice 4: Fitting of orthokeratology contact lenses
Practice 5: Fitting of hydrophilic contact lenses for myopia control.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Tutorials	5,00
Theory	15,00
Other activities	25,00
Total hours	**45,00**

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	5,00
Individual or group project	37,00
Independent study and work	20,50
Preparation of lessons	5,00
Preparation for assessment activities	0,00
Resolution of case studies	0,00
Total hours	**67,50**

TEACHING METHODOLOGY

In Contactology II, different teaching methodologies will be used depending on the organisational format of the students. Specifically:

• Audiovisual methodologies: used in lectures, seminars, individual tutorials, group tutorials and independent work.

• Practical exercises based on theoretical content: seminars and individual work.

• Group interactivity through oral presentations: seminars and group tutorials.

• Practical application of theoretical content in the laboratory: clinical practice sessions.

• Delivery of theoretical course content: lectures.

• Small-group sessions with simulated patients and course development with real patients: clinical practice sessions and seminars with simulations.

EVALUATION

The final grade is composed of three parts:

1. Examination: 7 points
2. Practical sessions: 2 points
3. Seminars: 1 point

In order to pass the course, students must obtain at least half of the score in each part:

• Examination: at least 3.5/7
• Practical sessions: at least 1/2
• Seminars: at least 0.5/1

The practical sessions will be assessed through continuous assessment and through the preparation of a practical notebook or portfolio, in which students must record the cases worked on during the practical sessions. This notebook must include the relevant clinical information on the fittings performed and image records of these fittings when appropriate, such as topographies, fluorescein patterns of rigid lenses or other clinical images obtained during the practical sessions. For this purpose, students must record the necessary images during the practical sessions and may use, when appropriate, the cameras of their mobile devices.

First sitting

• If students fail only the examination, with a mark below 3.5/7, they may retake it in the second sitting without any further requirements.
• If students fail only the practical sessions component, with a mark below 1/2, they must improve the practical notebook or portfolio according to the instructions provided by the teaching staff.
• If students fail only the seminars component, with a mark below 0.5/1, they must complete a monographic assignment proposed by the teaching staff on a topic related to the course. The submission and defence of this assignment will replace the seminar grade.
• If students fail two components or all three, they must individually fulfil the requirements established to recover each failed component.

Second sitting

• The same weighting is maintained: examination 7 points, practical sessions 2 points and seminars 1 point.
• The second-sitting examination only recovers the examination component.
• The improvement of the practical notebook or portfolio will count towards the practical sessions component.
• The monographic assignment proposed by the teaching staff will replace the seminars component in the second sitting.
• In order to pass the course in the second sitting, the same minimum score requirements apply: examination at least 3.5/7, practical sessions at least 1/2 and seminars/assignment at least 0.5/1.

REFERENCES

Basic references:

• Gasson A., Morris J. The Contact Lens Manual: A Practical Guide to Fitting. 4th ed. Elsevier, 2010. ISBN 9780750675901.
• Phillips A.J., Speedwell L. Contact Lenses. 6th ed. Elsevier, 2018. ISBN 9780702071683.
• Efron N. Contact Lens Complications. 4th ed. Elsevier, 2019. ISBN 9780702076114.

Complementary references:

• Bennett E.S., Weissman B.A. Clinical Contact Lens Practice. Lippincott Williams & Wilkins, 2005. ISBN 9780781745072.
• Hom M.M., Bruce A.S. Manual de prescripción y adaptación de lentes de contacto. Elsevier, 2007. ISBN 9788481749663.