COURSE DATA

DATA SUBJECT

Code: 34306
Name: Contactology II
Cycle: Undergraduate Studies
ECTS Credits: 4.5
Academic year: 2025-26

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

GARCIA LAZARO SANTIAGO

SUMMARY

The subject's (*Contactology II*) main objective is to offer specific knowledge for contact lens fitting in special cases and learn what alterations and complications might arise from contact lens wear. Therefore, this subject will allow students to complete the training of skills as primary visual health professionals, and parallelly combine the knowledge acquired in the subjects of *Contactology I and Contactology Practices,* allowing them to think in contact lens fitting as a whole. Consequently, this subject acts as the culmination of the contactology learning process within basic instruction.

Thus, as reflected in the program, the subject aims to evaluate aspects such as contact lens fittings in irregular corneas or for myopia control but also to analyze how such fittings can have an effect on ocular physiology. A complete evaluation of contact lens fitting in special cases, clinical protocol required and assessment and decision making in the case of complications due to contact lens wear, will be carried out.

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 suitable to have attended and passed the subjects relating to Optometry, as Optometry I and Optometry II. As well as subjects of the basic module like Physics, Geometrical Optics, Anatomy and Physiological Optics. And subjects of the Optic modules like Optical and Optometric Instruments and Ophthalmic Optics.

COMPETENCES / LEARNING OUTCOMES

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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 the fitting of contact lenses 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 applied seminars.

Topic 1: Fitting of contact lenses for presbyopia
Topic 2: Fitting of contact lenses on irregular corneal 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

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2. Contact lens¿related complications

This unit explores complications derived from contact lens use, as well as prevention, diagnosis and clinical management strategies. Case discussions help students develop clinical criteria to identify and address common signs and symptoms.

Topic 4: Prevention of contact lens-related complications
Topic 5: Complications associated with contact lens use

Seminar 1: Analysis and resolution of clinical cases
Seminar 2: Analysis and resolution of clinical cases

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3. Practical sessions

This practical unit focuses on developing clinical skills for contact lens fitting in different scenarios. Students will apply specific protocols for 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 the Contactology II course, 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, individual work.
- Group interactivity through oral presentations: seminars, 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 real-patient interaction during course development: clinical practice and seminars with simulations.

EVALUATION

The final grade is composed of three parts:

1. Examination (7 points)

2. Practicals sessions (2 points)

3. Seminars (1 point)

In order to pass the course, it will be necessary to obtain at least half of the points of each part:

- Exam almost 3.5/7
- Practicals sessions (continuous assessment and memory) almost 1/2
- Seminars almost 0.5/1

First sitting

- If the student fails only the exam (grade < 3.5/7), he/she may repeat the exam in the second sitting without further requirements.
- If the student fails only the practical part (grade < 1/2), he/she will have to improve the practical report after the teacher's indications.
- If students fail only the seminar section (grade < 0.5/1), they must complete a

monographic work proposed by the lecturer on a subject related to the course; the delivery and defence of this work will replace the seminar grade.

- If you fail two or all three parts of the course, you must fulfil each of the requirements individually in order to recover each part.

Second sitting

- The same weighting is maintained (7+2+1).
- The exam in the second sitting only recovers the part of the exam.
- The improvement of the internship report will count towards the internship section.
- The monographic work proposed by the teacher on a subject related to the subject replaces the seminar part in the second call.
- In order to pass the second sitting, the same minimum marks are required: exam almost 3.5/7, practical sessions almost 1/2 and seminars/work almost 0.5/1.

REFERENCES

Basic references:

- Gasson A., Morris J. *The Contact Lens Manual: A Practical Guide to Fitting.* Butterworth-Heinemann - 2003 - ISBN 9780750688888
- Phillips A.J., Speedwell L. *Contact Lenses* (5th ed.). Elsevier - 2007 - ISBN 9780750688888
- Efron N. *Contact Lens Complications.* Elsevier Health Sciences - 2012 - ISBN 9780702047633

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