

**COURSE DATA****Data Subject**

Code	34306
Name	Contactology II
Cycle	Grade
ECTS Credits	4.5
Academic year	2021 - 2022

Study (s)

Degree	Center	Acad. Period year
1207 - Degree in Optics and Optometry	Faculty of Physics	3 First term

Subject-matter

Degree	Subject-matter	Character
1207 - Degree in Optics and Optometry	13 - Contactology	Obligatory

Coordination

Name	Department
GARCIA LAZARO, SANTIAGO	280 - Optics and Optometry and Vision Sciences

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.



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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 (RD 1393/2007) // LEARNING OUTCOMES (RD 822/2021)

1207 - Degree in Optics and Optometry

- To have and to understand the fundamentals of Optometry for its correct clinical and healthcare application.
- Knowing how to apply the knowledge acquired to professional activity, knowing how to solve problems and develop and defend arguments.
- 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.
- 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 properties of the types of contact lenses and ocular prostheses.
- To know the geometry and physicochemical properties of the contact lens and to associate them with the ocular and refractive characteristics.



- To know and to use clinical and instrumental protocols in the exploration associated with the adaptation of contact lenses.
- To know the maintenance, diagnosis and treatment solutions and to associate them with the lenticular and ocular characteristics.
- To apply the clinical procedures associated with the adaptation of contact lenses to different refractive and ocular dysfunctions.
- To apply techniques of controlled modification of the corneal topography with the use of contact lenses.
- To detect, to assess and to solve anomalies associated with the wearing of contact lenses.
- To adapt contact lenses and ocular prostheses to improve vision and the external appearance of the eye.

LEARNING OUTCOMES (RD 1393/2007) // NO CONTENT (RD 822/2021)

The student must acquire the advance knowledge of Contactology II subject that is necessary to successfully address contact lens fittings in more complex situations, such as in the correction of presbyopia or orthokeratology. The student should familiarize with special fittings as well as with the possible consequences derived from contact lens use.

DESCRIPTION OF CONTENTS

1. Special contact lenses fitting

- Topic 1: Contact lens fitting for presbyopia.
- Topic 2: Contact lens fitting on irregular surfaces.
- Topic 3: Contact lens fitting 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 derived from use of contact lens

- Topic 4: Prevention of contact lens complications derived from its use.
- Topic 5: Complications derived from use of contact lens.

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



3. Practices

Practice 1: Preliminary tests for fitting contact lenses.

Practice 2: Multifocal soft contact lenses fitting.

Practice 3: Contact lenses fitting on irregular cornea.

Practice 4: Orthokeratology contact lens fitting.

Practice 5: Soft contact lenses fitting for myopia control

WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	30,00	100
Tutorials	7,50	100
Other activities	7,50	100
Development of group work	5,00	0
Development of individual work	5,00	0
Study and independent work	34,50	0
Preparing lectures	23,00	0
TOTAL	112,50	

TEACHING METHODOLOGY

In the subject Contactology II different educational methodologies will be in use depending on the organizational modality of the student. So that:

AUDIO-VISUAL METHODOLOGIES: They will be in use in theoretical classes, seminars, individual tutorships, tutorships in-group and individual work.

EXERCISES OF PRACTICAL APPLICATION OF THE THEORETICAL CONTENTS: Seminars, individual work.

INTERACTIVITY OF THE GROUP ACROSS ORAL EXHIBITIONS: Seminars, tutorships in-group.

DEVELOPMENT OF THE THEORETICAL CONTENTS OF PRACTICAL FORM IN IN LABORATORY APPLICATION: Practices in offices.

THE THEORETICAL CONTENTS OF THE MATTER: Theoretical Classes.

CLASSES OF REDUCED GROUP WITH SIMULATED PATIENTS AND IN THE DEVELOPMENT OF THE MATTER WITH REAL PATIENTS: Practices in offices and seminars with simulations.



EVALUATION

The evaluation of the subject will consist of three parts:

- Theoretical evaluation: written test examination. Maximum of 7 points.
- Practical evaluation: assistance and use to the 5 practices and delivery of the memories. Maximum of 2 points.
- Continued evaluation: participation in seminars, accomplishment of talks and resolution of cases. Maximum of 1 point.

It is mandatory to obtain at least the half of the possible note in each of the different parts.

REFERENCES

Basic

- Phillips AJ, Speedwell L. Contact Lenses. Ed. Elsevier. 5ª Edición. 2007.
- Bennett ES, Weissman BA. Clinical Contact Lens Practice. Ed. Lippincott Williams & Wilkins. 2005.
- Villar-Collar C, González-Meijome JM. Ortoqueratología Nocturna. Ed. ICM. 2007.
- Montés Micó R. Optometría. Aspectos avanzados y consideraciones especiales. Ed. Elsevier. 2011.
- González-Cavada Benavides J. Atlas de lámpara de hendidura y lentes de contacto. Ed. ICM. 2015.
- González Méijome JM, Villa Collar C. Superficie ocular y lentes de Contacto. Fundación Salud Visual, Desarrollo Optométrico y Audiológico. 2016.
- Efron N. Contact Lens Complications. Ed. Elsevier Health Sciences. 2012.
- Durán de la Colina JA. Complicaciones de las lentes de contacto. Ed. Díaz de Santos. 1998.
- Gasson A, Morris J. The Contact Lens Manual A practical guide to fitting. Ed. Butterworth-Heinemann. 2003.

Additional

- Hom MM, Bruce AS. Manual de prescripción y adaptación de lentes de contacto. Ed. Elsevier España. 2007
- Martín Herranz R. Contactología Aplicada. Ed. ICM. 2005.
- Saona Santos CL. Contactología Clínica. Ed. Masson. 2002.
- López Alemany A. Lentes de Contacto: Materiales y aspectos clínicos. Ed. Ulleye. 1997.
- Mannis MJ, Zadnik K. Contact Lenses in Ophthalmic Practice. Ed. Springer. 2003.
- Millodot M. Dictionary of Optometry and Visual Science. Elsevier. 7ª ed. Ed. Butterworth-Heinemann-Elsevier. 2008.



ADDENDUM COVID-19

This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council

TEACHING METHODOLOGY

In the event that the health situation requires a hybrid teaching model, the teaching modality approved in the Academic Degree Committee in a session of July 20, 2020 will be adopted, which consists of 100% presence of the students in all activities, but with a classroom capacity of 50% in theory classes.

If a total reduction in attendance is required, then the synchronous videoconference modality would be used, given at the time set by the subject and the group, during the period determined by the Health Authority.