

## 26817 - Contactology

### Syllabus Information

**Academic Year:** 2019/20

**Subject:** 26817 - Contactology

**Faculty / School:** 100 - Facultad de Ciencias

**Degree:** 297 - Degree in Optics and Optometry

**ECTS:** 16.0

**Year:** 3

**Semester:** Annual

**Subject Type:** Compulsory

**Module:** ---

## 1.General information

### 1.1.Aims of the course

### 1.2.Context and importance of this course in the degree

### 1.3.Recommendations to take this course

## 2.Learning goals

### 2.1.Competences

### 2.2.Learning goals

### 2.3.Importance of learning goals

## 3.Assessment (1st and 2nd call)

### 3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

## 4.Methodology, learning tasks, syllabus and resources

### 4.1.Methodological overview

The course is structured in lectures and mandatory practical sessions. The proposed activities Likewise, for the acquisition of up-to-date knowledge about lenses and market maintenance systems.

### 4.2.Learning tasks

The program offered to the student to help him achieve the expected results includes the following: Acquisition of fundamental knowledge of Contactology. (9 ECTS)

Methodology:

- ? Participatory master classes in a large group.
- ? Tutorials (small groups and / or individualized)
- ? Creation and / or exhibition of individual or small group work.
- ? Role-based practice for solving typical cases through Moodle.
- ? Development of contents and exercises through Moodle.

Acquisition of practical knowledge of Contactology (7 ECTS)

Methodology:

- ? 15 Practices in small group laboratory (peer learning)
- ? 5 Practices in computer classrooms.
- ? Tutorials (small groups and / or individualized)
- ? Role-based practice for solving typical cases through Moodle.
- ? Learning based on the case study.

- ? Seminars of companies of the sector.
- ? Performing and / or exposing individual and / or team work.

The program for the acquisition of practical knowledge consists of 20 practices 15 of them to

### 4.3.Syllabus

The program to be developed for the acquisition of theoretical knowledge consists of the follow

1. History of contact lenses.
2. Materials for the manufacture of contact lenses.
3. Pre-adaptation studies of contact lenses.
4. Dry eye and contact lens wear.
5. Geometry and maps of topographic corneal analysis.
6. Anatomy and applied corneal physiology.
7. Geometry of contact lenses with rotation symmetry. Procedures for adaptation and control.
8. The bearing of LC and its consequences on the eyelid, tear, epithelium, stroma and corneal
9. Geometry of contact lenses without rotation symmetry. Procedures for adaptation and control.
10. Microbial keratitis and by acantamoeba.
11. Contact lens maintenance systems and solutions.
12. Pharmacology and interaction with contact lenses.
13. Keratoconus and irregular corneas. Procedures for its control and adaptation.
14. Orthokeratology at night. Procedures for its control and adaptation.
- Therapeutic and cosmetic lenses.
16. Controversial adaptations and post surgery.
17. Lenses and maintenance systems on the market.

### 4.4.Course planning and calendar

Calendar of face-to-face sessions and presentation of works  
The calendar will be updated continuously through the ADD.

### 4.5.Bibliography and recommended resources

- BB** Clinical manual of contact lenses / edited by Edward S. Bennett, Vinita Allee Henry . - 2nd ed. Philadelphia : Lippincop. 2000
- BB** Contact lens practice / edited by Nathan Efron . - 1st publ., repr. Edinburgh [etc.] : Butterworth-Heinemann, 2007
- BB** Contact lenses / edited by Anthony J. Phillips and Lynne Speedwell ; consulting editor, Judith Morris ; CD-ROM crea - 5th ed. Edinburgh [etc.] : Butterworth Heinemann, 2007
- BB** Douthwaite, W. A.. Contact lens optics and lens design / W. A. Douthwaite . 3rd ed. Edinburgh, [etc.] : Elsevier Butte 2006
- BB** Manual de prescripción y adaptación de lentes de contacto / Milton M. Hom, Adrian S. Bruce [editores] ; [autores, Mi al. ; traducción y revisión científica, Carlos Luis Saona Santos] . - 3<sup>ª</sup> ed. Amsterdam [etc.] : Elsevier-Masson, D.L.
- BB** Ojo seco y otras trastornos de la superficie ocular : diagnóstico y tratamiento en xerodacriología / directores, Ashok prólogo Juan Murube . Madrid [etc.] : Editorial Médica Panamericana, cop. 2008
- BB** Saona Santos, Carlos Luis. Contactología clínica / Carlos Luis Saona Santos . - 2<sup>ª</sup> ed. Barcelona [etc.] : Masson,
- BB** Villa Collar, César. Atlas de topografía corneal y aberrometría ocular / César Villa Collar . Madrid : Colegio Nacional Ópticos-Optometristas, D.L. 2004
- BB** Villa Collar, Cesar. Ortoqueratología nocturna / César Villa Collar, José Manuel González-Méijome . Madrid : Colegio Ópticos-Optometristas, 2006