

**Información del Plan Docente**

<b>Academic Year</b>	2017/18
<b>Faculty / School</b>	100 - Facultad de Ciencias
<b>Degree</b>	297 - Degree in Optics and Optometry
<b>ECTS</b>	16.0
<b>Year</b>	3
<b>Semester</b>	Annual
<b>Subject Type</b>	Compulsory
<b>Module</b>	---

**1.General information****1.1.Introduction****1.2.Recommendations to take this course****1.3.Context and importance of this course in the degree****1.4.Activities and key dates****2.Learning goals****2.1.Learning goals****2.2.Importance of learning goals****3.Aims of the course and competences****3.1.Aims of the course****3.2.Competences****4.Assessment (1st and 2nd call)****4.1.Assessment tasks (description of tasks, marking system and assessment criteria)****5.Methodology, learning tasks, syllabus and resources****5.1.Methodological overview**

The course is structured in lectures and 20 practical sessions. The proposed activities focus on the application of the knowledge acquired in the theoretical classes to solve real cases, which arise either using patients as their own colleagues or with real patients in the last practical sessions. These clinical cases are presented by the students to their classmates so that they are analyzed and discussed in common so as to deepen the knowledge of the subject. Likewise, for the acquisition of up-to-date knowledge about lenses and market maintenance systems, content creation and case resolution activities have been arranged through moodle.

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### 5.2.Learning tasks

The program offered to the student to help him achieve the expected results includes the following activities ... 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 be carried out in the offices of optometry where the procedures of adaptation and control of contact lenses will be practiced and 5 in computer room where will be the learning of the tools of Software necessary for the control and adaptation of contact lenses.

### 5.3.Syllabus

The program to be developed for the acquisition of theoretical knowledge consists of the following points: 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 endothelium. 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.

### 5.4.Course planning and calendar

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

### 5.5.Bibliography and recommended resources

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| BB | Clinical manual of contact lenses / edited by Edward S. Bennett, Vinita Allee Henry . - 2nd ed. Philadelphia : Lippincott Williams & Wilkins, cop. 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 created by Tony Hough . - 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 Butterworth-Heinemann, 2006  |
| BB | Manual de prescripción y adaptación de lentes de contacto / Milton M. Hom, Adrian S. Bruce [editores] ; [autores, Mike  |

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Christensen ... et al. ; traducción y revisión científica, Carlos Luis Saona Santos] . - 3ª ed. Amsterdam [etc.] : Elsevier-Masson, D.L. 2007

**BB** Ojo seco y otras trastornos de la superficie ocular : diagnóstico y tratamiento en xerodacriología / directores, Ashok Garg ... [et al.] ; prólogo Juan Murube . Madrid [etc.] : Editorial Médica Panamericana, cop. 2008

**BB** Saona Santos, Carlos Luis. Contactología clínica / Carlos Luis Saona Santos . - 2ª ed. Barcelona [etc.] : Masson, D.L. 2006

**BB** Villa Collar, César. Atlas de topografía corneal y aberrometría ocular / César Villa Collar . Madrid : Colegio Nacional de Ópticos-Optometristas, D.L. 2004

**BB** Villa Collar, Cesar. Ortoqueratología nocturna / César Villa Collar, José Manuel González-Méjome . Madrid : Colegio Nacional de Ópticos-Optometristas, 2006