

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

<b>Code</b>	34312
<b>Name</b>	External internships
<b>Cycle</b>	Grade
<b>ECTS Credits</b>	18.0
<b>Academic year</b>	2018 - 2019

**Study (s)**

<b>Degree</b>	<b>Center</b>	<b>Acad. year</b>	<b>Period</b>
1207 - Degree in Optics and Optometry	Faculty of Physics	4	Second term

**Subject-matter**

<b>Degree</b>	<b>Subject-matter</b>	<b>Character</b>
1207 - Degree in Optics and Optometry	18 - External internship in Optics and optometry	External Practice

**Coordination**

<b>Name</b>	<b>Department</b>
DIEZ AJENJO, MARIA AMPARO	280 - Optics and Optometry and Vision Sciences

**SUMMARY**

External Practices of the Optics and Optometry Degree are the practical application of all the knowledge acquired throughout the Degree in all subject-matter. They are in the second quarter of the last year of the Degree to ensure that the student had access to all the necessary knowledge to be able to attend real patients.

The practices begin on the first day of the second quarter and they have an duration of 20 hours per week in a schedule that will be marked according to the number of students enrolled and the availability of the place where the practices are carried out.



The students will attend real patients supervised by professional optometrists. The objective is to achieve dexterity attending optometric patients in all basic aspects: graduation, contact lenses adaptation, binocular vision analysis ... We want to get professionals with a real vision of the problems and their interrelations, so we prepare their future incorporation into the work and develop in a practical way the competences established in the degree.

## PREVIOUS KNOWLEDGE

### Relationship to other subjects of the same degree

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

### Other requirements

Students must have at least 180 ECTS, and 24 of them must be from the subjects of Optometry or Contactology at the moment of enrollment.

Students who have only two subjects to obtain the Degree (Final Thesis and External Practices are not matters to take account), and these two subjects they have previously been enrolled in any previous year, can request the advance at the Tuition, and they can make them in the first quarter.

The subject requires knowledge of all the optometric matters of the Degree, as well as those related to contactology and Ophthalmic Optics.

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

### 1207 - Degree in Optics and Optometry

- Students must have acquired knowledge and understanding in a specific field of study, on the basis of general secondary education and at a level that includes mainly knowledge drawn from advanced textbooks, but also some cutting-edge knowledge in their field of study.
- Students must be able to apply their knowledge to their work or vocation in a professional manner and have acquired the competences required for the preparation and defence of arguments and for problem solving in their field of study.
- Students must have the ability to gather and interpret relevant data (usually in their field of study) to make judgements that take relevant social, scientific or ethical issues into consideration.
- Students must be able to communicate information, ideas, problems and solutions to both expert and lay audiences.
- Students must have developed the learning skills needed to undertake further study with a high degree of autonomy.
- To apply the knowledge acquired in the previous modules in Optical establishments, Clinics and Hospitals and Companies of the sector.



- To carry out clinical activities related to refraction, visual exploration, contact lens fitting, visual training and low vision.
- To apply the techniques of mounting corrections or visual compensation in glasses and possible touch-up of contact lenses.
- To make contact with the commercialization of the products, supply, storage, conservation and information.
- To know and to apply manufacturing techniques for visual aids and optical and optometric instruments.
- To know the different protocols of action depending on the patient.
- To know the indications and procedure for carrying out and interpreting the complementary tests necessary in the vision consultation.
- To carry out the patient care protocol in the optometric clinic / clinic.
- To take a clinical history appropriate to the patient's profile.
- To select and to apply correctly in each case all the skills, abilities and competencies acquired in Optometry.
- To encourage collaboration with other healthcare professionals.
- To communicate and to inform the patient of all acts and tests to be performed and clearly explain the results and their diagnosis.
- To know, to assess and to apply a gender perspective in the scientific and professional field.

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

#### Learning outcomes

The student must achieve an adequate level of clinical skill in the application of all the usual procedures developed in the optometric clinic and learned in the theoretical and practical sections in simulated patients in the teaching received at the Optometry and Optometry Degree in the next:

- Know how to defend the optometrist - patient relationship.
- Data collection in the case analysis, determination of the main complaint and inference of the steps to follow later.
- Handling optometric scanning equipment.
- Application of tests used in optometric exploration.
- Analysis of the results obtained in the anamnesis and the exploration.
- Learn to perform the differential diagnosis of the analyzed optometric case.



- How to perform a diagnostic clinical impression with the available data.
- Decision making regarding the optometric problem of the patient.
- How to evaluate if a solution to the main complaint of the patient has been provided.
- Follow-up of the optometric case. Know when to transfer the patient to other professionals.
- Writing reports on the optometric situation of the patient.
- Know how to prepare and participate in a clinical session as a means of assisting in the diagnosis of the case.
- In the case of developing in companies in the optical sector, the student must have acquired the skills taught in the company.

Regarding social and transversal skills:

- Learn to work in an organized way.
- Establish work plans that allow to obtain the desired results in the most direct way.
- Ability to understand and synthesize the problems in order to reach a solution.
- Provide original solutions.
- Develop cooperation skills with other professionals. Rigor when assessing the work done by oneself.
- Encourage the critical spirit and encourage the spirit of overcoming wrong results.
- Awareness of the ethical component and the deontological principles of the exercise of the profession.
- Value and apply the fundamental rights of equality between women and men in the workplace

## DESCRIPTION OF CONTENTS

### 1. CLINICAL TASKS

Anamnesis, refraction, visual exploration, contact lens adaptation, visual training and low vision. Techniques to compensate visual deficiencies with goggles and possible retouching of contact lenses. Application of the different action protocols based on the patient. Carry out a clinical history appropriate to the patient's profile.

**2. OPTICAL TASKS**

Optical projects development. Manufacture of optical elements development. Other aspects related to the activity of the company.

**WORKLOAD**

ACTIVITY	Hours	% To be attended
Internship		100
Development of individual work	10,00	0
Preparation of evaluation activities	20,00	0
Preparing lectures	5,00	0
Seguimiento y tutorización de Prácticas externas	270,00	0
<b>TOTAL</b>	<b>305,00</b>	

**TEACHING METHODOLOGY**

The methodology that will be applied in this matter will be clinical or technological activities in work hours of a company or clinical entity from Monday to Friday (except other times indicated by the clinical center or Company), and at the second semester of the course until a total of 270 hours. Attendance is mandatory for all practices. In the case of non-attendance, days must be recovered on other dates specified by the clinical entity. There are three different modalities for the development of the External Practices:

- 1.- External Practices that the student will provide in the Optometric Clinic of the "Lluís Alcanyís" Foundation of the University of Valencia. This place was mainly created to offer clinical training to the students of the Degree of Optics and Optometry and of the Master's Degree in Advanced Optometry and Vision Science.
- 2.- Possibility, if it is applicable, of external practices outside of our country in visual attention cooperation centers that are indicated in a timely manner.
- 3.- Proposing, if it is necessary, the development of External Practices project. Its viability will be considered in the CAT of the Degree of Optics and Optometry.

**EVALUATION**





The evaluation of external practices will be carried out following the these criteria:

- Attendance to the practices: the attendance will not score for the note, but it will provide a suitable or non-suitable to pass the subject. Not attendance to the whole of the practices will be non-suitable score and therefore, a fail in the subject. In non-suitable case, the student will repeat all the practices in another academic course.

- Assessment of external tutors: this part will mean 30% of the final mark of the subject. It will be calculated based on the valuation of items by each of the external tutors who have been with the student during the period of practices. These items will evaluate the use of the students' practices, aptitudes and attitudes when dealing with a real case, organizational capacity, initiative, responsibility, behavior with patients, interest, interpretation and evaluation of data, punctuality, integration in the work group, order, assimilation of new technologies, etc.

- Report of the academic tutor of the student at the University: this part will mean 20% of the total grade of the subject. The academic tutor will base his / her note in a personal interview with the student and in the correction of a memory that the student will give to the tutor. This mekory will be done following the protocol of the regulations of the external practices of the University of Valencia, adding the development of three clinical cases seen during the practice period. The academic tutor will process the note of external tutors and their own note, which will be reflected in the academic tutor's report.

- Oral presentation and defense of one of the three clinical cases with a Tribunal. On the date indicated in time and form within the period established by the University of Valencia, the student must prepare two of the three clinical cases exposed in the memory, in order to defend one of them before the Tribunal. The clinical case will be chosen by the Tribunal radomly. On the indicated date, the student will send the Tribunal a writing copy of the two clinical cases that he has prepared for the defense, in order the Tribunal has time to read them before the exhibition.

This part will represent the remaining 50% of the total note of the subject. In this part, if the note is less than 5 points, the student will be suspended (although the average with the other parties was greater than 5), and it will be necessary to repeat the oral defense in a the next adademic call.

## REFERENCES



**Basic**

- NORMATIVA DE PRÁCTICAS EXTERNAS DE LA UNIVERSITAT DE VALENCIA

