Course guide
370026 - DISPENS I - Dispensing and Assembly of Spectacles I

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Unit in charge: Terrassa School of Optics and Optometry
Teaching unit: 731 - OO - Department of Optics and Optometry.

Degree: BACHELOR'S DEGREE IN OPTICS AND OPTOMETRY (Syllabus 2020). (Compulsory subject).

Academic year: 2025 **ECTS Credits:** 3.0 **Languages:** Catalan

LECTURER

Coordinating lecturer: Lupón Bas, Marta (Professora titular, https://futur.upc.edu/MartaLuponBas).

Others: Fransoy Bel, Marta (Professora titular, https://futur.upc.edu/MartaFransoyBel).
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REQUIREMENTS

To have studied the subject SPECTACLE ADAPTATION AND FITTING.

To assist patients at Centre Universitari de la Visió (CUV, University Center of Vision) it is mandatory to present the certificate of absence of sexual offences, and to have signed the confidentiality agreement template.

Students only can perform activities at CUV if they wear a clean white coat with no commercial identification.

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
CE12. Understand and make use of techniques for analysing, measuring, correcting and monitoring the effects of compensatory optical systems on the visual system in order to optimise their design and fit. Make use of the techniques of centring, fitting, mounting and adjusting on all kinds of optometrically prescribed lenses, visual aids and protective eyewear. Prescribe, monitor and follow up with optical corrections. Identify and analyse environmental and workplace risk factors that could lead to visual issues.

Generical:
CG5. Give opinions and produce reports and expert reports when necessary.
CG10. Communicate treatment indications of visual health and their conclusions to the patient, relatives and other professionals involved in the patient’s care, adapting to the sociocultural characteristics of each person.

Transversal:
CT6. Independent learning. Identify and overcome gaps in one's knowledge by thinking critically and choosing the best approach to extending one's knowledge.

TEACHING METHODOLOGY

MD3 - Solving practical cases and/or exercises related to the contents of the subject, with the participation of the students.
MD6 - Problems, exercises, assignments and resolution of doubts through the Atenea virtual campus.
MD8 - Solving cases with real patients in healthcare establishments.

The student's independent work will be collected in a portfolio that will need to be updated weekly; teachers will supervise the portfolio during the course and at the end of the course.

The communication channel with the students will be the ATENEA virtual campus (publication of news and issues relating to the development of the subject, publication of teaching material, communication through forums and/or personal messaging, etc.). It is the student's responsibility to check the platform regularly.

LEARNING OBJECTIVES OF THE SUBJECT

1. Competence to apply the protocols for fitting spectacles with monofocal or multifocal spectacle lenses, either with or without induced prismatic effects.
2. Competence to communicate with the patient, taking into account their particular needs and characteristics, with the aim of to identify accurately the reason for the consultation, his/her expectations, and to communicate effetively the proposed solution in each case.

STUDY LOAD

Type	Hours	Percentage
Self study	45,0	60.00
Hours small group	30,0	40.00

Total learning time: 75 h

CONTENTS

DISPENSING AND ASSEMBLY OF SPECTACLES. SIMULATED CASES

Description:
Situations related to the dispensing and assembly of spectacles are considered for simulated cases, that is, without attending patients; it may include some fieldwork.

Related activities:
- Internships in the FOOT laboratory.
- Problem solving and group activities.
- Collection of data for the Portfolio.

Related competencies :
CE12. Understand and make use of techniques for analysing, measuring, correcting and monitoring the effects of compensatory optical systems on the visual system in order to optimise their design and fit. Make use of the techniques of centring, fitting, mounting and adjusting on all kinds of optometrically prescribed lenses, visual aids and protective eyewear. Prescribe, monitor and follow up with optical corrections. Identify and analyse environmental and workplace risk factors that could lead to visual issues.

Full-or-part-time: 16h
Laboratory classes: 8h
Self study : 8h

PATIENT ASSISTANCE IN SPECTACLE DISPENSING. REAL CASES

Description:
The needs of the patients are met in terms of the choice of frames and spectacle lenses, the delivery of the spectacles (adjustment, instructions of use and maintenance), and maladaptations.

Related activities:
- Lens and frame selection activities for real cases, handling of catalogs, delivery of spectacles (adjustment, instructions for use and maintenance), and look for solutions in case of maladjustment.
- Collection of data to include in the Portfolio.

Full-or-part-time: 19h
Laboratory classes: 12h
Self study : 7h

SPECTACLE ASSEMBLY. REAL CASES

Description:
The patients spectacles mounting is performed and its quality is checked.

Related activities:
- Glasses fitting activities in the CUV: marking of the lenses with the focimeter, centering and beveling of the lenses with a computerized beveler, retouching and polishing edges with a manual beveler, inserting the lenses, checking the centering and the prescription, and visual inspection of finished spectacles.
- Collection of data to be included in the Portfolio.

Full-or-part-time: 25h
Laboratory classes: 10h
Self study : 15h

PORTFOLIO

Description:
Each student must prepare a Portfolio in which he presents, in an tidy and structured manner, all the cases he/she has dealt with in the activities of dispensing and fitting of spectacles. The Portfolio must also include a critical reflection on the results and on the service-learning experience (ApS) lived by the student.

Related activities:
- Preparation of the Portfolio according to the stipulated format.

Full-or-part-time: 15h
Self study : 15h

ACTIVITIES

DISPENSING AND ASSEMBLY OF SPECTACLES. SIMULATED CASES

Description:
The activity consists of considering and solving different cases in simulated situations, as a preparation prior to attending to real patients.

Related competencies :
CE12. Understand and make use of techniques for analysing, measuring, correcting and monitoring the effects of compensatory optical systems on the visual system in order to optimise their design and fit. Make use of the techniques of centring, fitting, mounting and adjusting on all kinds of optometrically prescribed lenses, visual aids and protective eyewear. Prescribe, monitor and follow up with optical corrections. Identify and analyse environmental and workplace risk factors that could lead to visual issues.

Full-or-part-time: 16h
Laboratory classes: 8h
Self study: 8h

PATIENT CARE. REAL CASES

Description:
The activity consists of receiving patients, advising them on the choice of lenses and frames according to the prescription and their particular characteristics and needs, and collecting all the necessary data to be able to order lenses and fit the spectacles . When delivering the spectacles, it is necessary to check the anatomical fitting, centering, good vision, and to communicate the instructions for use, cleaning and maintenance of the spectacles to each patient.

Related competencies :
CG10. Communicate treatment indications of visual health and their conclusions to the patient, relatives and other professionals involved in the patient’s care, adapting to the sociocultural characteristics of each person.
CE12. Understand and make use of techniques for analysing, measuring, correcting and monitoring the effects of compensatory optical systems on the visual system in order to optimise their design and fit. Make use of the techniques of centring, fitting, mounting and adjusting on all kinds of optometrically prescribed lenses, visual aids and protective eyewear. Prescribe, monitor and follow up with optical corrections. Identify and analyse environmental and workplace risk factors that could lead to visual issues.

Full-or-part-time: 19h
Laboratory classes: 12h
Self study: 7h

LENS MOUNTING IN SPECTACLES. REAL CASES

Description:
The activity consists of inserting the lenses in the frames, evaluating their quality, and checking the compliance regarding the applicable regulations (self-assessment).

Related competencies :
CG5. Give opinions and produce reports and expert reports when necessary.
CE12. Understand and make use of techniques for analysing, measuring, correcting and monitoring the effects of compensatory optical systems on the visual system in order to optimise their design and fit. Make use of the techniques of centring, fitting, mounting and adjusting on all kinds of optometrically prescribed lenses, visual aids and protective eyewear. Prescribe, monitor and follow up with optical corrections. Identify and analyse environmental and workplace risk factors that could lead to visual issues.
CT6. Independent learning. Identify and overcome gaps in one's knowledge by thinking critically and choosing the best approach to extending one's knowledge.

Full-or-part-time: 25h
Laboratory classes: 10h
Self study: 15h

PORTFOLIO

Description:
The activity consists of creating a Portfolio with the collection of all cases addressed during the course (simulated and real): data collection, critical reflection on the results and repercussions of the use of the spectacles, and critical reflection of the student's ApS experience.

Related competencies :
CG5. Give opinions and produce reports and expert reports when necessary.
CG10. Communicate treatment indications of visual health and their conclusions to the patient, relatives and other professionals involved in the patient’s care, adapting to the sociocultural characteristics of each person.
CT6. Independent learning. Identify and overcome gaps in one's knowledge by thinking critically and choosing the best approach to extending one's knowledge.

Full-or-part-time: 15h
Self study: 15h

EUROPEAN DIPLOMA IN OPTOMETRY COMPETENCES

Description:
This module contributes to the European Diploma in Optometry competencies indicated in the following link:
https://drive.google.com/drive/folders/1bwmHBsvkrGnY63DfXAnWZB_i0I2pXa-I?usp=drive_link

GRADING SYSTEM

The total grade will be the result of the continuous assessment of the mandatory activities regarding simulated cases and/or field work, the activities of dispensing and mounting spectacles for the patients of CUV, and the results reports compiled in the student portfolio, with the following weighting:

- Compulsory activities with simulated cases and/or field work (30%).
- Spectacles' dispensing activities with real patients (25%).
- Spectacles' mounting activities for real patients (30%).
- Portfolio of the subject (15%).

RE-ASSESSMENT: as in all clinical subjects, re-assessment is not an option (agreement CP.FOOT/2025/02).

EXAMINATION RULES.

Attendance at face-to-face sessions, and handing in the activities and portfolio are mandatory.

The unexcused absence of more than 10% of face-to-face sessions and/or not handing in the compulsory activities and the portfolio may result in a grade of NP in the subject.

The delivery of activities outside the deadline will not be accepted, nor of activities that do not follow the format rules given.

All work submitted through Atenea is automatically analyzed by the OURIGINAL plagiarism detection tool. If a delivery is judged to be plagiarized it will be graded with a zero. If a text writing style suspected of being written with an AI system is detected, and the student does not declare it, too.

In the case of partial or total copying in any of the subject's assessment activities, what is provided for in the General Academic Regulations of the UPC will apply: "irregular actions that may lead to a significant variation in the qualification of one or more students constitute a fraudulent performance of an assessment. This action entails the descriptive and numerical grade of 0 for the assessment and the subject, without prejudice to the disciplinary process that may be derived as consequence of the actions taken. If the student considers the decision incorrect, he or she can file a complaint with the director or the dean of the teaching center and, if the answer does not satisfy him or her, he or she can file an appeal with the rector or rector. The total or partial reproduction of academic or research works, or their use for any other purpose, must have the explicit authorization of the authors. It is up to the director or the dean of the educational center to resolve allegations about aspects not included in the regulations."

BIBLIOGRAPHY

Basic:

- Caum Aregay, Jesús [et al.]. Tecnología óptica : lentes oftálmicas, diseño y adaptación [on line]. Barcelona: Edicions UPC, 2001 [Consultation: 24/07/2024]. Available on: http://hdl.handle.net/2099.3/36343. ISBN 8483014742.
- Jalie, Mo. Ophthalmic lenses & dispensing. 3rd ed. Oxford: Butterworth Heinemann Elsevier, 2008. ISBN 9780750688949.