Course guide
370032 - DISPENS II - Dispensing and Assembly of Spectacles II

Last modified: 10/06/2025

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)
Megino Quesada, Ana Isabel, Professora associada

REQUIREMENTS

Having completed the course on Adaptation of Glasses, and Dispensing and Assembly of Glasses I.
To attend to patients at the Centro Universitario de la Visión (CUV) it is mandatory to present the certificate of absence from sexual crimes, and to have signed the data confidentiality document.
Activities at the CUV cannot be carried out if a clean, white coat is not worn, without any 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

MD2 - Active methodologies in the classroom (learning based in problems-PBL, case studies, role-playing games, cooperative learning,...).
MD6 - Completion of problems, exercises, assignments and resolution of doubts through the Atenea Virtual Campus.
MD8 - Resolution of cases with real patients in health establishments.

The students' independent work will be collected in a portfolio that will be reviewed at the end of the course.
The communication channel with the students will be the Atenea Virtual Campus: (publication of news and questions related to the development of the subject,
publication of teaching material, communication through forums and/or personal messaging, etc.).
It is the students' responsibility to consult the platform frequently.

LEARNING OBJECTIVES OF THE SUBJECT

- 1. Competence to apply the protocols for Adaptation of Glasses with monofocal or multifocal compensating lenses, with or without induced prismatic effects.
- 2. Competence to communicate with the patient, taking into account his/her needs and characteristics,
with the aim of correctly identifying the reason for the consultation, his/her expectations, and effectively communicating the proposed solution in each case.

STUDY LOAD

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

Total learning time: 75 h

CONTENTS

Patient Care. Selection and Delivery of Glasses.

Description:
Attention to the needs of CUV patients regarding the choice of frames and lenses for their glasses,
the delivery of glasses (adjustment, instructions for use and maintenance), and maladjustments.

Related activities:
- Activities of choosing lenses and frames for real cases, handling catalogues, delivering glasses,
(adjustment, instructions for use and maintenance), and finding solutions in case of maladjustment.
- Compilation 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.
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.

Full-or-part-time: 23h 30m
Laboratory classes: 18h
Self study : 5h 30m

Assembly of Optometric Prescriptions in Glasses.

Description:
Optometric prescriptions are assembled for CUV patients, their quality is assessed,
and compliance with the applicable UNE regulations is verified.

Related activities:
- Eyeglass assembly activities at the CUV: marking of lenses with a frontofocometer, centering and beveling of lenses with a computerized edger,
retouching and polishing of edges with a manual edger, insertion of lenses, control of centering and prescription, and visual inspection of finished glasses.
- 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.
CG5. Give opinions and produce reports and expert reports when necessary.
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: 23h 30m
Laboratory classes: 18h
Self study : 5h 30m

Mandatory Autonomous Activities and Portfolio.

Description:
During the semester, different compulsory activities will be proposed that involve active methodologies, and a Portfolio must be prepared with the compilation of cases attended during the course.
In the Portfolio, in addition to presenting the data in a structured and orderly manner, students must carry out a critical reflection on the results
and the repercussions of the use of glasses on users, on their achievement of skills, and on the learning experience derived from taking DiMU1 and DiMU2.

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

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.
CG5. Give opinions and produce reports and expert reports when necessary.
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: 28h
Laboratory classes: 6h
Self study : 22h

ACTIVITIES

CUV Patient care: Treatment with Glasses.

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 :
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.
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.

Full-or-part-time: 16h 30m
Self study: 5h 30m
Laboratory classes: 11h

Assembly of Prescriptions for Patients Served at the CUV.

Description:
The activity consists of inserting the lenses in the frames, evaluating their quality,
nd checking the compliance regarding the Applicable Regulations (Self-assessment).

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.
CG5. Give opinions and produce reports and expert reports when necessary.
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: 16h 30m
Self study: 5h 30m
Laboratory classes: 11h

Autonomous Activities and Portfolio.

Description:
The activity consists of performing a Portfolio including all the information related with the cases dealt with during the semester.

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.
CG5. Give opinions and produce reports and expert reports when necessary.
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: 27h
Self study: 27h

UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH

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 evaluation of the activities related to the active methodologies used,
the activities of Dispensing Glasses for patients at the CUV, the activities of Assembling Glasses for patients at the CUV, and the results reports compiled in a portfolio, with the following weighting:
- Mandatory activities related to active methodologies: (25%).
- Activities of Dispensing Glasses to patients treated at the CUV: (30%).
- Activities of Assembling Glasses for patients treated at the CUV: (30%).
- Portfolio of the subject: (15%).

RE-EVALUATION: being a clinical subject, re-assessment is not an option (agreement CP.FOOT/2025/02).

EXAMINATION RULES.

Attendance at face-to-face sessions and the submission of activities and the portfolio are mandatory.
Unjustified absence from more than 10% of the sessions and/or failure to submit mandatory activities and the portfolio may result in a grade of NP in the course.

All submissions must be made following the guidelines and deadlines indicated on the course intranet (Campus Virtual Atenea).

All work submitted through Atenea is automatically analysed by the OURIGINAL plagiarism detection tool.
If a submission is assessed to be plagiarised, it will be graded with a zero. If a suspicious writing style is detected that is written with an AI system, it will also be graded with a zero.

In the event of partial or total copying in any of the course's assessments, the provisions of the UPC General Academic Regulations will apply:
"Irregular actions that may lead to a significant variation in the grade of one or more students constitute fraudulent performance of an assessment act.
This action involves a descriptive grade of fail and a numerical grade of 0 for the assessment act and the subject,
without prejudice to the disciplinary process that may arise as a consequence of the acts carried out.
If the student considers the decision incorrect, he or she may file a complaint by means of an application to the director or the dean of the educational center and,
if the response does not satisfy him or her, he or she may lodge an appeal with the 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 the responsibility of the director or the dean of the educational center to resolve the allegations on the 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 [etc.]: Butterworth Heinemann Elsevier, 2008. ISBN 9780750688949.