



Course guide

370038 - TFG - Bachelor's Thesis

Last modified: 31/05/2025

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). (Project subject).

Academic year: 2025 **ECTS Credits:** 6.0 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: Argilés Sans, Marc (<https://futur.upc.edu/MarcArgilesSans>)

Others: Cada alumne tindrà com a mínim un professor director del seu TFG, pertanyent a qualsevol departament de la UPC.

REQUIREMENTS

Those subject to the academic regulations of the FOOT

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
CE27. (ENG) Treball final de grau: matèria transversal en que el treball es realitzarà associat a diferents matèries.

Generical:

CG1. Demonstrate knowledge of, design and apply prevention and maintenance programmes relating to the population's visual health.

CG4. Critically reflect on the clinical, scientific, ethical and social issues involved in the professional practice of optometry, understand the scientific foundations of optics and optometry and critically evaluate terminology, clinical trials and research methods related to optics and optometry.

CG5. Give opinions and produce reports and expert reports when necessary.

CG6. Assess and incorporate the technological improvements necessary to properly carry out professional activities.

CG8. Plan and carry out research projects that contribute to the production of knowledge in the field of optometry and disseminate this scientific knowledge via the typical communication channels.

CG9. Expand and update one's professional abilities through continuing education.

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.

CG11. Locate new information and interpret it in context.

CG12. (ENG) The ability to understand the general structure of optometry and its connection to other specific disciplines and other complementary ones.

CG13. Demonstrate and interpret methods for critical analysis and theory development and apply them to the field of optometry.

CG14. Demonstrate knowledge, skills and abilities in patient healthcare.

CG16. Participate effectively in both single-discipline and multidisciplinary work groups on projects related to optometry.

CG17. (ENG) Incorporar els principis ètics i legals de la professió a la pràctica professional, respectant l'autonomia del pacient, els seus determinants genètics, demogràfics, culturals i socioeconòmics, integrant els aspectes socials i comunitaris en la presa de decisions, aplicant els principis de justícia social en la pràctica professional, en un context mundial en transformació.

CG18. (ENG) Adquirir la capacitat per a realitzar una gestió clínica centrada en el pacient, el l'economia de la salut i en l'ús eficient dels recursos sanitaris, així com la gestió eficaç de la documentació clínica amb especial atenció a la confidencialitat.

Transversal:

CT1. (ENG) Emprenedoria i innovació. Conèixer i entendre la organització d'una empresa i les ciències que regeixen la seva activitat; tenir capacitat per entendre les normes laborals i les relaciones entre la planificació, les estratègies industrials i comercials, la qualitat i el benefici.

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

CT7. Foreign language. Demonstrate knowledge of a foreign language, preferably English, at an oral and written level that is consistent with graduates' future needs.

CT4. (ENG) Teamwork. The ability to work as a member of an interdisciplinary team, as just another member or in a leadership role, who can contribute to developing projects pragmatically and with a sense of responsibility and make commitments that take into account the resources that are available.

CT2. SUSTAINABILITY AND SOCIAL COMMITMENT: Being aware of and understanding the complexity of the economic and social phenomena typical of a welfare society, and being able to relate social welfare to globalisation and sustainability and to use technique, technology, economics and sustainability in a balanced and compatible manner.

CT3. Teamwork. To be able to work as a member of a multidisciplinary team, either as a base member or undertaking managerial decisions aiming at developing projects from a practical and responsible standpoint, adopting commitments given the available resources

CT5. Efficient use of information resources. To manage data and technical and scientific information acquisition, organization, analysis and visualization and to provide a critical appraisal of the results of this management

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

1. Demonstrate skills to integrate knowledge acquired with professional practice.
2. Demonstrate that you have understood the general structure of Optometry and the connection with the other disciplines.
3. Demonstrate knowledge, skills and skills in patient health care, as well as the ability to act as a visual primary care agent.
4. Demonstrate skills for the interpretation and practical application of the chosen topic, through critical analysis and the development of theories.
5. Demonstrate skills for searching, analyzing and synthesizing information.
6. Draft and revise documents with appropriate format, content, structure, linguistic correction and registration.
7. Evaluate results and present them orally. Be able to communicate clearly and efficiently.
8. Analyse, assess and respond appropriately to the court's questions.

CONTENTS

Final Degree Project Development

Description:

The content of the subject will consist of the preparation of a project of a professional nature in which the skills acquired in the courses of the Degree in Optics and Optometry are synthesized.

The student, in agreement with the director, makes a declaration of the general and transversal skills that will be worked on during the completion of the End of Degree Project. The director and the court will evaluate the acquisition of these skills. Transversal competence in oral and written communication will always be worked on.

Related activities:

Students will have to complete 4 hours of mandatory training and attendance on how to write a final degree thesis, and how to cite and reference bibliographic citations

Full-or-part-time: 150h

Guided activities: 30h

Self study : 120h

ACTIVITIES

name english

Full-or-part-time: 30h

Guided activities: 30h

name english

Full-or-part-time: 120h

Self study: 120h

GRADING SYSTEM

The final qualification of the TFG will result from evaluating the following aspects, taking into account the relative weight of each of them:

1.- Monitoring of the activities that the student is carrying out during the period of time in which the TFG is carried out. The evaluation corresponds to the director of the work, and will have a weight of 25% of the final qualification.

2.- Assessment of the report to be written by the student, where the bibliography consulted, the objectives, the experimental procedures, the performance of the measurements, the obtaining of the results, the treatment of the data, the writing of the conclusions, and any other aspect that is considered relevant. The evaluation corresponds to the director of the work, and will have a weight of 30% of the final qualification.

3.- Evaluation of the exhibition and public defense of the TFG before a court. This section of the TFG assessment will require the creation of a poster in digital format (maximum 3 slides), of which the student must provide a copy in pdf format to the members of the panel, 2 weeks in advance. To make the presentation, the student will have a maximum time of 6-7 minutes, and then the members of the panel will proceed to ask the relevant questions for another 6-7 minutes. The evaluation corresponds to the members of the court, and will have a weight of 45% of the final qualification.

TFG qualification = $0.25 \cdot \text{Follow-up} + 0.30 \cdot \text{Memory} + 0.45 \cdot \text{Exhibition and Defense}$

Students who do not complete the mandatory training will not be able to deposit the TFG report

RESOURCES

Hyperlink:

- Normativa dels Estudis de Grau i Màster de la UPC, Curs 2022-2023. Resource
- Normativa del TFG de la FOOT. Resource