VNIVERSITAT DE VALÈNCIA

Course Guide
47005 Master's Thesis

COURSE DATA

DATA SUBJECT

Code: 47005
Name: Master's Thesis
Cycle: Master's Degree
ECTS Credits: 12
Academic year: 2026-27

STUDY (S)

Degree	Center	Acad. year	Period
2280 - Master's Degree in Advanced Optometry and Vision Sciences	Facultat de Física	1	Indefinite (Individuals)

SUBJECT-MATTER

Degree	Subject-matter	Character
2280 - Master's Degree in Advanced Optometry and Vision Sciences	Trabajo Fin de Máster	MASTER THESIS PROJECT

COORDINATION

TAUSTE FRANCES ANA

SUMMARY

The Master's Thesis (TFM) course aims to enable the student to apply the knowledge and skills acquired throughout the program by developing an original project, which may consist of a clinical study (design, implementation and evaluation of patient protocols) or a rigorous literature review on a current topic. Under the supervision of a tutor, the student will define objectives, methodologies and a work schedule, collect and analyze data or literature, and write a structured report including theoretical justification, results and conclusions. The TFM concludes with a public presentation and oral defense before a panel, where scientific quality, synthesis skills and the ability to argue and answer questions will be assessed.

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

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

OTHER REQUIREMENTS

In order to present and defend the thesis before the examination panel, all other subjects of the master's academic program must have been successfully completed.

COMPETENCES / LEARNING OUTCOMES

2280 - Master's Degree in Advanced Optometry and Vision Sciences

Analyse data obtained from the statistical tests used.

Apply a rigorous method in the design phase of an experiment and in analysing data obtained during optometric research.

Apply quantitative and qualitative research methods to collect, analyse and interpret data related to optometry and eye health.

Apply search filters to select relevant information on a specific topic.

Communicate scientific results, conclusions, knowledge or diagnoses, and the conceptual framework on which they are based, to both expert and non-expert audiences clearly and unambiguously.

Compare information from different sources and studies, analyse it critically and synthesise the most relevant information.

Conduct a basic, clinical or literature review study on a topic in vision sciences.

Convey scientific knowledge in the field of optometry.

Deliver a public presentation of the results obtained and communicate them appropriately.

Discuss and analyse experimental problems and research results in optometry.

Organise information obtained from different bibliographic sources.

Plan and carry out research projects that contribute to the production of knowledge in the field of optometry.

Plan biosanitary research in optics and optometry.

Understand advanced statistical methods applied to clinical research in optometry.

Understand all concepts previously covered in the degree programme.

Understand different statistical calculation software programmes.

Understand how to design an experiment and clinical research projects in optometry.

Understand methods for searching and accessing scientific information in bibliographic databases related to optometry.

DESCRIPTION OF CONTENTS

The Master's Thesis (TFM) consists of the development of a research project in the field of optometry and vision sciences, proposed by the student based on their interests and the technical possibilities of their professional or work environment, and always under the supervision of a university tutor. This project enables the practical application of the knowledge and methodologies acquired during the program, as well as the consolidation of the master's general competencies.

The TFM is primarily focused on the design, implementation and analysis of a clinical research study, involving the collection and processing of relevant data within a rigorous methodological framework. This may include prevalence studies, evaluation of intervention protocols, analysis of clinical outcomes, or other forms of applied research.

The student must define specific objectives, an appropriate methodology and a realistic work plan, collect and analyze data, write a structured report (introduction, methodology, results, discussion and conclusions), and publicly defend their work before an academic committee.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at supplementary activities	0,00
Monitoring and tutoring of the master's thesis	0,00
Presentation and defence of the master's thesis	2,00
Total hours	**2,00**

NON PRESENCIAL ACTIVITIES

Activity	Hours
Independent preparation of the master's thesis	200,00
Preparation of the master's thesis project	98,00
Total hours	**298,00**

TEACHING METHODOLOGY

The methodology of the Master's Thesis is based on individualized supervision sessions, which will be held either in person or online via the Virtual Classroom platform of the University of Valencia, adapting to the student's availability and needs. The student's work will consist of developing an original project, writing a final report, and preparing an oral presentation. For this presentation, the student may use any audiovisual resources they deem appropriate, coordinating with their tutor to ensure that the established objectives and deadlines are met.

EVALUATION

The evaluation of the Master's Thesis consists of two components:

- Oral defense before the committee (70%)
  The committee will assess the quality of the written report, the oral presentation, and the responses to the questions asked. Before beginning the defense, the student must present an official identification document.
- Report by the academic tutor (30%)
  The tutor will provide an assessment based on the supervision process, the achievement of the objectives, and the overall quality of the project.

The final grade will be calculated as the weighted sum of both components.

REFERENCES

Basic references:

- González Teruel A. *Aproximación sistemática a la revisión de la literatura en el contexto de un trabajo de fin de máster*. Universitat de València - 2023 (disponible en el repositorio institucional RODERIC)

- Rethlefsen M.L., Kirtley S., Waffenschmidt S., Ayala A.P., Moher D., Page M.J., Koffel J.B.; PRISMA-S Group. *PRISMA-S: an extension to the PRISMA Statement for Reporting Literature Searches in Systematic Reviews*. Systematic Reviews - 2021 - DOI: 10.1186 /s13643-020-01542-z

- Creswell J.W. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches* (4th ed.). SAGE Publications - 2014 - ISBN 978-1452226101