

Academic Year/course: 2022/23

68425 - Master's Dissertation

Syllabus Information

Academic Year: 2022/23

Subject: 68425 - Master's Dissertation

Faculty / School: 104 - Facultad de Medicina

Degree: 530 - Master's in Introduction to Medical Research

ECTS: 16.0

Year: 1

Semester: Annual

Subject Type: Master Final Project

Module:

1. General information

1.1. Aims of the course

The subject and its expected results respond to the following approaches and objectives:

1. General objectives of the course:

To verify the acquisition by the student of the knowledge and methodology sufficient for incorporation into the Field of Medical Research

To allow and favor the incorporation of graduates in doctoral studies, To Promote training and improvement in biomedical research

To stimulate and favor the incorporation into teams and lines of research, in order to further develop its Own research activity

2. Specific objectives: Demonstrate the student's ability to:

? Posing problems in new clinical and research environments,

? Integrate knowledge and formulate research hypotheses based on a critical review of the knowledge,

? Understand and apply research methodology at the basic, clinical or experimental level.

? Study in a self-directed manner and communicate their findings in public with efficiency and accuracy.

1.2. Context and importance of this course in the degree

The completion, presentation and defense of the Master's Degree Work completes the Master's curriculum, Manifests the ability of the student to integrate, apply and develop different conceptual and methodological aspects learned during the Master's Degree, to perform and publicly present a basic, cynical, applied or translational in the field of Medicine. In many cases it could be the doctoral thesis project, which will be carried out later

1.3. Recommendations to take this course

Have completed and passed the compulsory and optional subjects of the Master and justify obtaining 44 credits.

2. Learning goals

2.1. Competences

By passing the subject, the student will be more competent to ...

? Perform a critical analysis of a biomedical scientific article,

? Develop a research project,

? Know and use experimental models,

? To adequately quantify the biomedical results,

? To know and apply the ethical and legal norms of medical research.

? Start the PhD and, if necessary, start the Doctoral Thesis. In many cases (this could be roject of doctoral thesis, which will be carried out later)

2.2. Learning goals

It is a compulsory subject of 16 credits, eminently practical in scope, which culminates the Master's Study Plan, once the 44 credits have been passed (24 of compulsory subjects and 20 of electives) and which consists of the completion and presentation of a Work / Research Project structured, conveniently directed and tutored.

The completion, presentation and defense of the Master's Final Project, culminates the Master's study plan, highlighting the student's ability to integrate, apply and develop different conceptual and methodological aspects learned during the Master, to carry out and publicly present a Project Basic, cynical, applied or translational research in the field of Medicine.

2.3. Importance of learning goals

The competences that form this subject are relevant because it allows:

- ? Identify research problems and operationalize their formulation according to research design selected.
- ? Identify the different research designs
- ? Develop basic skills to select and apply research designs
- ? Maintain a critical spirit, based on clinical reasoning and existing scientific evidence.
- ? Plan the process of setting up and developing a research study characteristics of the study and the ethical principles for the decision-making process guided by the method scientific.
- ? Analyze and synthesize the research results, for their criticism
- ? Transmit the research results to the rest of the scientific community in different models of presentation.

3. Assessment (1st and 2nd call)

3.1. Assessment tasks (description of tasks, marking system and assessment criteria)

The student must demonstrate that he has achieved the anticipated learning outcomes through the following evaluation activity:

Presentation and defense before a Court, of a Work related fundamentally to research in Medicine.

For its evaluation, the student must submit a written report, accompanied by the material that is deemed appropriate, as well as perform his public defense before a court.

The completion, presentation and defense of the Master's Final Project (TFM), culminates the Master's study plan, and consists of the completion and presentation of a structured Research Project / Project, suitably directed and tutored that highlights the ability of the student to integrate, apply and develop different conceptual and methodological aspects learned during the Master, to carry out and publicly present a Basic, clinical, applied or translational Research Project in the field of Medicine. They will contain enough elements of personal creation and will properly cite all the fonts used. In many cases it could be the doctoral thesis project, which will be carried out later.

Court

The evaluating court or courts will be appointed in accordance with the provisions established for this purpose by the Quality Assurance Commission of the degree.

Each evaluating tribunal will be made up of three doctor members who will be proposed by the Master's Quality Assurance Commission and at least two of them will be professors from the University of Zaragoza. The research staff of the University of Zaragoza or of Mixed Centers may also be part of the courts, with the corresponding requirements

Presentation and Defense

The defense will be carried out once the student has passed the rest of the subjects or subjects that lead to obtaining the official title, and within the course in which he or she had enrolled or in the next.

The defense of the Final Master's Projects will be carried out in public session, on the established dates, during the school period and before the court appointed for this purpose. The exhibition will have a maximum duration of fifteen minutes, which can be followed

a debate with the members of the court about its presentation, content and methodology

After the presentation and defense of the works, the members of the court must issue an individualized report, assessing both the quality of the work and its presentation and defense. The court, in view of the same, will qualify the work and an act will be issued, which must be signed by all the members of the court, which will show the qualification awarded.

The director of the Master's Final Project and, where appropriate, the speaker, may transfer to the court as many observations as they deem necessary to facilitate the understanding and assessment of the work. In any case, they must be heard by the court before it agrees, where appropriate, a negative evaluation of the Master's Final Project.

In the event of a negative evaluation, the court must issue a report detailing those deficiencies in the work, both methodological and content, that have led to such consideration.

Each Court will issue a record stating in each student, the detailed score of all the evaluated aspects of the TFM as well as the final grade awarded and that must be signed by all the members of the court.

For eventual qualification claims, the procedure established by the Examination Regulations and Evaluation Tests of the University of Zaragoza (agreement of the Governing Board of April 25 and 26, 1996).

The request for review of qualification must be formulated in a reasoned manner by writing addressed to the Teaching of the Faculty of Medicine.

The student may appear at most twice. Once said term has elapsed without the defense having been passed, the student must re-enroll.

Evaluation criteria

They refer to the weighting in% of the final grade, in relation to the different aspects of the work, both in relation to its structure and content, as well as its presentation and defense before the Court:

Each member of the Tribunal will previously evaluate the Master's Final Projects presented, according to the following criteria: Type of work: 0-1, Originality / Importance: 0-1, Structure: 0-2, Presentation: 0-1, Extension : 0-1, Bibliography: 0-1. Likewise, each member of the Court will evaluate the presentation and defense of the Final Master's Projects presented: 0-3

The final grade will be the result of the arithmetic mean of the grades (Total), presented by each member of the court. The qualification of the work will be carried out with the same scale as the rest of the official degree subjects. In the event that the grade is less than five, the court will point out the appraised defects, indicating the modifications that will have to be carried out in the work or a new defense of the same.

The qualification will be made on a numerical scale from 0 to 10, with the expression of a decimal, to which the corresponding qualitative qualification may be added: 0- 4.9 Suspense (SS). 5.9- 6.9 Pass (AP) - 7.0- 8.9 Notable (NT). 0-10 Outstanding (SB).

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

It is regulated by the Resolution of May 17, 2018, of the Rector of the University of Zaragoza, which approves a Consolidated Text of the Regulations for the Final Degree and Master's Thesis at the University of Zaragoza.

Address.

The Final Master's projects will have at least one director, and where appropriate, a co-director who will supervise and supervise the student's work.

To direct or co-direct the TFM, it will be necessary to be a Doctor and that the Director or one of the co-directors belong to the teaching or research staff of the University of Zaragoza and to one of the areas of knowledge linked to the corresponding degree. The director(s) who do not meet these conditions must have a reasoned and favorable report from the Quality Assurance Commission of the degree in question. When the requirement of being linked to the UZ is not met, it will be necessary to appoint a professor or member of the research staff of the University of Zaragoza to assume the duties of speaker, endorsing the adequacy and quality of the work presented. In any case, the number of co-directors, including the speaker, may not exceed 2.

The student and in relation to their professional affinities in the Work Center and / or belonging or joining a research group, will decide the topic of their interest on which they will carry out their TFM and will select and propose the director or directors of the same in accordance with the above specifications.

The subject of the work will be established by mutual agreement between the student and its director. The director is responsible for validating and supervising the process of carrying out the work.

Ultimately, the Degree's Quality Assurance Commission will guarantee the subject and director assignment for all enrolled students.

The direction of the work will be reflected in the file of the Teacher's Teaching Plan and will be recognized in the terms established in the regulatory provisions of this University.

Presentation of TFM proposals.

The presentation of the proposals will be made in the Secretariat of the Faculty, before January 31 and this proposal must contain the following aspects: Title. Summary of the work. Approval of the Director or directors. (Annex I)

The presentation of said proposal will be for all the works that will be presented in any of the calls of the corresponding academic year.

Labor Depository (TFM)

The student must deposit his or her final master's work in the manner provided by the Center, with the approval of the director or co-directors, throughout the twelve months after enrollment and on the dates indicated in the Master's calendar and published at the beginning of the course. If the previous term has elapsed without the deposit being made, the student must re-enroll.

The Works will be deposited in the Secretary of the Center, on the dates indicated in the Master's calendar, published before the start of the Course and available on the website of the Faculty and the degree and in the TFM teaching guide for the corresponding academic year .

TFM deposit format:

The works will be presented at the Faculty Secretariat according to the official formats and guidelines of the University of Zaragoza, and their electronic deposit on the university website (ZAGUAN) is mandatory: <http://deposita.unizar.es>.

The Quality Assurance Commission of the Master of Initiation to Research in Medicine does not establish special rules regarding extension or binding, although logically it must include fundamental aspects such as: Title, Author / Director, Summary / Abstract, Index, Justification of the topic, Introduction / bibliographic review / Current state of knowledge, Objectives, Material and Methods, Results, Discussion, Conclusions, Bibliography

In any case, the archive of the master's thesis will guarantee copyright in accordance with the provisions of current legislation

When making the deposit of the TFM the student must deliver: a brief report from the director or directors of the Work authorizing its presentation (Annex II), in a standard model

In exceptional circumstances, the deposit of the Work could be established electronically in pdf format in the Secretary of the Center.

The completion of Master's Thesis that involves research with people, the use of personal or health data, or the use of biological samples of human origin, is subject to law, prior approval by a research ethics committee . In Aragon, this function is the responsibility of CEICA, but the responsibility for initiating the procedures corresponds to the researchers (student and Director / tutor), who must ensure that this requirement is met, through the established self-evaluation procedure, before starting the work. The link to access the procedure will be made through the following link:

<https://www.iacs.es/investigacion/comite-de-etica-de-la-investigacion-de-aragon-ceica/ceica-evaluaciones-y-otras-presentacion>

4.2. Learning tasks

The Final Master's Thesis (TFM) will constitute an autonomous and personal work of the student and will consist in the realization of a memory or project in which the knowledge, abilities, aptitudes and attitudes acquired by the student throughout the It will show the student's ability to integrate, apply and develop different conceptual and methodological aspects learned during the Master, to make and publicly present a basic, cynical, applied or translational research project in the field of Medicine. They will contain enough elements of personal creation and will adequately quote all the sources used. The theme of TFM will be established in agreement with the director or directors.

4.3. Syllabus

PRESENTATION AND CALLS OF THE TFM
The presentation of the proposal for the Master's Thesis will be held at the Center's Secretariat: from enrollment until January 31, in a standardized model (Annex I), which must contain the following aspects: 1. Expected title, 2. Approval and acceptance of the Director, 3 Scheduled call for defense.

Three calls are established for the defense of the works, according to the calendar established by the University and will be published on the website of the Faculty of Medicine well in advance and in which the place, date and time and composition of the Courts and will be specified as well as the list of the students summoned.

4.4. Course planning and calendar

Calendar of key dates. Course 2021- 22

Submission of proposals (Of all the TFM, regardless of the date selected for its defense): Until January 31, 2023 (Annex I), at the Faculty Secretariat, indicating the call to which it will be presented.

When making the deposit of the TFM, the student must submit: A brief report from the director of the Work authorizing its presentation (Annex II) and three copies of the memory of the Work Deposit of the Master's Final Projects and Annex II in the Secretariat of the Center: Until June 23 in the 1st Call and until September 1st 25 the 2nd call. Defense of the Master's Thesis: July 7 in 1st call and September 15 in 2nd call.

Normalized model TFM Assessment Survey:

https://medicina.unizar.es/sites/medicina/files/archivos/Master/encuesta_de_evaluacion_de_la_titulacion.pdf

Standardized model Annex I "TFM Proposal"

[https://medicina.unizar.es/sites/medicina/files/archivos/Master/Ficha%20de%20presentaci%C3%B3n%20propuesta%20TFM%](https://medicina.unizar.es/sites/medicina/files/archivos/Master/Ficha%20de%20presentaci%C3%B3n%20propuesta%20TFM%20I.pdf)

Standardized model Annex II "Evaluation report of the TFM director"

https://medicina.unizar.es/sites/medicina/files/archivos/Master/informe_de_evaluacion_director_tfm.pdf

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