

**Información del Plan Docente****Academic Year** 2017/18**Faculty / School****Degree****ECTS** 16.0**Year** ---**Semester** Annual**Subject Type****Module** ---**1.General information****1.1.Introduction**

It is a compulsory subject of 16 credits, of eminently practical scope, culminating the Plan of Studies of the Master, once exceeded 44 credits of the Master and that consists in the realization and presentation of a Work / Structured and tutored research project. At least one Professor of The Faculty of Medicine / University of Zaragoza that preferably teaches in the Master.

**1.2.Recommendations to take this course**

1. Teachers responsible:

Coordinator of the Master: José M<sup>a</sup> Miguelena Bobadilla. [jmmibo@unizar.es](mailto:jmmibo@unizar.es)

Department of Surgery. Obstetrics and Gynecology

Teachers and / or doctors of the Faculty of Medicine, preferably of the Master, who assume the direction of the Project

2. Presentation and general context of the subject

It is a compulsory subject of 16 credits, of eminently practical scope, culminating the Plan of Studies of the Master, once exceeded the 44 credits (24 of compulsory Subjects and 20 of optional) and that consists in the realization and presentation of a Structured Research Project / Work, tutored by a Professor of Faculty of Medicine of Zaragoza that preferably teaches in the Master, that will be the Director of the Work.

**1.3.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

**1.4.Activities and key dates**

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Presentation of the proposals: From the registration until the last week of May, in the Secretariat of the Center.

Calls for defense Works: 1) Between June 20 to July 7 and 2) Between 15 and 30 September.

Once completed and prior to its presentation, three copies of it will be deposited in the Secretariat of the Center, 15 days before the date convened for his presentation and defense.

The defense of the FINAL MASTER WORKS will be held in public session, in the established dates, in period and before the full court.

The specific dates of the calls (Course 2015-16) are as follows:

Submission of proposals: Until the last week of May 2018 (Annex I), together with anonymous evaluation survey about the Master

Filing / Deposit of MFIs: June 22, 2019 / August 24, 2018

Defense / Courts: July 5, 2018 / September 7, 2018

## 2.Learning goals

### 2.1.Learning goals

The student, to overcome this subject, must demonstrate the following results ...

The completion, presentation and defense of the Master's Final Project culminates 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 project of doctoral thesis, that will realize later.

### 2.2.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.Aims of the course and competences

### 3.1.Aims of the course

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

1. General objectives of the course:

- \* 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,
- 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:

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- \* 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.

### 3.2.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)

### 4.Assessment (1st and 2nd call)

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

The student must demonstrate that he / she has attained the expected learning outcomes through the following evaluation activities

For its evaluation, the student must present a written report, accompanied by the material that in his case appropriate, as well as make their public defense before a court.

##### \* Grading System

The qualification shall be made on a numerical scale from 0 to 10, with an expression of one decimal, to which may be added its

Corresponding qualitative rating: 0- 4.9 Suspended (SS). 5.9-6.9 Approved (AP) - 7.0-8.9 Remarkable. 9.0-10. Outstanding (SB).

##### \* Evaluation activities:

The defense of the Master's End Works will be held in public session, in the established dates, during the academic period and before the full court. The exhibition will have a maximum duration of fifteen minutes, which can be followed by a debate

With the members of the court on their content

After the defense of the work, the members of the court must issue an individualized report, valuing both the quality of work, such as exposure and advocacy. The court, in view of the same, will qualify the work. These reports will be archived until the promotion is definitively closed.

The Director of the Master's End Work and, where appropriate, the rapporteur, may transfer to the court any observations necessary to facilitate the understanding and evaluation of the work. In any case, they shall be heard by the Court before it agrees, where appropriate, the negative evaluation of the Work End of Master.

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

For each student, a record will be issued, which must be signed by all members of the court, which will include

The qualification awarded for any claims to qualification, the procedure established by the Exams and Tests of Evaluation of the University of Zaragoza (agreement of Governing Board of 25 and 26 of April ,1996).

The request for review of qualifications must be formulated in a reasoned manner by means of a written request to the teaching of the Faculty of Medicine. It will be admitted only if the title has not been requested.

#### EVALUATION CRITERIA

It refers to the weighting in% of the final mark, in relation to the different aspects of the work, both in relationship with its structure and content, as its exposure and defense before the Court:

Each member of the Tribunal, will previously evaluate the Master Ended Works submitted, in accordance with the following criteria:

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A. Job Type: 0-2

B. Structure: 0-2

C. Presentation: 0-1

D. Extension: 0-1

and. Bibliography: 0-1

Likewise, each member of the Tribunal, will evaluate the exhibition and defense of the Master Works presented: 0-3

The final grade will be the result of the arithmetic mean of the notes (Total), presented by each member of the court

### 5. Methodology, learning tasks, syllabus and resources

#### 5.1. Methodological overview

The Master's Dissertation will be an autonomous work consisting on the elaboration of a report or project in which the student will demonstrate the knowledge, skills, aptitudes and attitudes acquired throughout the Master's degree. It will be a personal and original written work supported by the adequate sources, and if required, it will be accompanied of the materials deemed appropriate in accordance with the procedures established by the Center.

#### 5.2. Learning tasks

The preparation, presentation and defense of Master's Dissertation (TFM) completes the curriculum of the Master's, demonstrating the student's ability to integrate; apply and develop different conceptual and methodological aspects; perform and publicly present a cynical / translational or applied Basic Research project in the field of medicine.

The Master's Dissertation will be an autonomous work consisting on the elaboration of a report or project in which the student will demonstrate the knowledge, skills, aptitudes and attitudes acquired throughout the Master's degree. It will be a personal and original written work supported by the adequate sources.

The topic of research will be established in agreement with the supervisor/s.

#### 5.3. Syllabus

The proposal submission will take place at the Center's Secretary office: from the enrollment period until the last week of May, in a standardized format (Annex I), which should contain the following aspects:

- 1. Provisional title
- 2. Summary of the project, which will indicate the context, problems and Objectives of the proposal
- 3. Acceptance of the supervisor

In a period of time no longer than a month after the proposal submission, the proposals will be evaluated by the Academic Committee of the Master's, which may approve them, reject them, or ask the student/supervisor for more complementary information.

There are two calls for the dissertation defense according to the schedule established by the corresponding courts and the academic calendar:

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- From June 20 to July 15
- From September 5 to 20

The dates and information (location, date, time, courts, student list) will be communicated to the students enrolled and it will be in the Secretary office of the Faculty of Medicine, at least 15 days before the indicated dates.

### 5.4.Course planning and calendar

#### Supervision

It is regulated by the Article 5 of the Agreement of 11 September 2014, the Governing Council of the University, approved Regulation for Master's Dissertation at the University of Zaragoza:

1. Master's Dissertation will have a supervisor, at least, that will safeguard and supervise the work of the student.
2. The principal or any of the co-supervisors must belong to the faculty staff of the University of Zaragoza and one of the areas of knowledge related to the corresponding degree or should be part of the staff of research staff at the University of Zaragoza or Joint Centers. The Quality Assurance Commission of the degree Exceptions may any of these conditions to recognized professional issuing a favorable reasoned report.
3. When not met the above conditions, or in exceptions will be necessary to appoint a teacher or member of the research staff at the University of Zaragoza that meets and assume the work of the rapporteur, endorsing the adequacy and quality of the work presented.
4. To lead or co-lead work to master the condition doctor will be necessary. Exceptionally, the Quality Assurance Commission a Master degree may authorize the management or co-management professors not doctors with a reasoned report.

The Quality Assurance Commission may assign of dissertations, taking into account the specificities of it. The topic of the dissertation is determined by an agreement between the student and the supervisor. Ultimately, the Quality Assurance Commission will ensure the allocation of a topic and supervisor to all the enrolled students. The The supervisor must accept and safeguard the process of carrying out the work. The supervision of the work will be reflected on the record of the management teaching plan and will be recognized in the terms established by the University regulations.

#### Proposal

The proposal submission will take place at the Center's Secretary office: from the enrollment period until the last week of May, in a standardized format (Annex I\*), which should contain the following aspects:

- 1. Provisional title
- 2. Summary of the project, which will indicate the context, problems and Objectives of the proposal,
- 3. Acceptance of the supervisor.

Place and dates of submission: Secretariat of the Center: From the enrollment period until the last week of May. In a period of time no longer than a month after the proposal submission, the proposals will be evaluated by the Academic Committee of the Master's, which may approve them, reject them, or ask the student/supervisor for more complementary information.

#### Defense

There are two calls for the dissertation defense according to the schedule established by the corresponding courts and the academic calendar:

## 68425 - Master's Dissertation

- From June 20 to July 15
- From September 5 to 20

The dates and information (location, date, time, courts, student list) will be communicated to the students enrolled and it will be in the Secretary office of the Faculty of Medicine, at least 15 days before the indicated dates. In response to any allegations or comments prior to the defense court, the author or supervisor/s or, where appropriate, rapporteur, may decide to keep it in its original state, modifications, or withdraw it at any time before beginning the defense.

In the event that the withdrawal of the Master's Dissertation is decided, you must restart the entire process of deposit and defense.

### CALENDAR

- Proposals: Until the last week of May (Annex I)
- Presentation / submission: June 23 (Friday) / August 25 (Friday)
- Defense / Courts: July 6th (Thursday) / September 8 (Friday)

### Submission

- The student must submit their TFM in the way arranged by the Center, with the approval of the supervisor or co-supervisors, over the twelve months following enrollment period. Once the twelve months passed and the student has not submitted the dissertation yet, the student must enrol again.
- TFM are submitted to the Secretariat of the Center, once they have passed the 48 credits required prior to its defense.
- **Format:**
  - - In text files and still image formats according to official guidelines of the University of Zaragoza, unless the content of the topic requires a dynamic format.
  - - The Quality Assurance Commission of the degree will inform of the extension/size of the project and its annexes.
  - - Dissertations will be part of the bibliographical corpus of the University of Zaragoza as a result of the academic production of its students. For this purpose, a procedure for electronic deposit will be enabled in the document repository of the University of Zaragoza (ZAGUAN). This procedure is mandatory prior the public defense.
  - - In any case, the file of work ensures copyright as established in the current legislation
  - - While the procedure for processing the dissertation is not active on the Electronic Office of the University of Zaragoza, schools may ask students the number of copies they deem appropriate \* without imposing requirements on the binding :
  - - \* *When making the deposit the student must provide: A brief report of the Supervisor of Labour authorizing submission and three copies of the Labour memory*

### Court

- The court or courts assessors shall be appointed as provided for that purpose by the Commission on Quality Assurance of the degree.
- Each evaluator tribunal shall consist of three doctors members to be proposed by the Commission Quality Assurance Master and at least two of them are professors at the University of Zaragoza. They can also be part of the courts, with the requirements that apply in your case, the researcher at the University of Zaragoza or Joint Centers staff.
- Presentation and Defense
- The defense will take place once the student has passed all other subjects or subjects leading to the official qualification, within the course which had been registered or the next.
- The student must proceed to the public defense TFMr before the appropriate court assessor within the periods that each center established for the purpose, at least two per course.
- The student may be submitted at most twice. After that time had passed without defense, the student must enroll again.

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- The defense of TFM is held in public session, on specified dates, in school period and before the full court.
- The exhibition will last a maximum of fifteen minutes, which can continue a discussion with members of the Tribunal on his presentation, content and methodology.
- Qualification
- The rating of the work will be done with the same assessment criteria as the other courses. In the event that the note is less than five, the court shall specify the appreciated defects, indicating the modifications that will be necessary to carry out at work or a new defense thereof.

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### **ANEXO I**

SHEET PRESENTATION OF PROPOSAL END OF MASTER MASTER OF INTRODUCTION TO RESEARCH IN MEDICINE.

COURSE:

STUDENT: Name and surname: . DNI.

Address: . Phone: . Email: .

Signature:

DATE OF PRESENTATION:

TITLE END OF MASTER:

DIRECTOR: Name: Department: Signature:

SUMMARY OF WORK TO DEVELOP: Objectives, Methodology (Add deemed pages)

### **ANEXO II**

REPORT / EVALUATION OF STUDENT DIRECTOR JOB TITLE:

WORK TITLE.

Filing Date / Deposit (Seal):

REPORT DIRECTOR / -EN:

Date:

Signed .:

## **5.5. Bibliography and recommended resources**

PUB MED

EMBASE

COCHRANE