

Academic Year/course: 2021/22

## 28445 - Undergraduate Dissertation

### Syllabus Information

**Academic Year:** 2021/22

**Subject:** 28445 - Undergraduate Dissertation

**Faculty / School:** 105 - Facultad de Veterinaria

**Degree:** 107 - Mobility for Degree

332 - .

451 - Degree in Veterinary Science

**ECTS:** 6.0

**Year:** 451 - Degree in Veterinary Science: 5

332 - .: XX

**Semester:** Second semester

**Subject Type:** 451 - End of Grade Dissertation

332 - Compulsory

**Module:**

## 1. General information

### 1.1. Aims of the course

The degree aims to provide society with quality veterinary professionals in any of the profiles of veterinary practice, such as, for example, clinic and production of rental animals, pet clinic, food safety and quality, public health, teaching, research, etc. ... By means of the TFG the student demonstrates to possess the competences acquired throughout the degree, learns to integrate them and to apply them in an autonomous way to deepen in a concrete subject. As far as possible, the development of projects will be encouraged in collaboration with livestock farms, veterinary clinics and companies, as well as in the context of university internships in the various fields of the profession, research contracts, etc., so that the experience gained through the development of the TFG is as realistic as possible. The aim is thus to encourage the acquisition of skills that prepare people for the exercise of professional activity.

The TFG aims to achieve the following objectives:

- Contributing to the integral formation of students by complementing their theoretical and practical learning.
- Facilitating the knowledge of the work methodology appropriate to the professional reality in which the students will have to act, contrasting and applying the acquired knowledge.
- Fostering the development of technical, methodological, personal and participatory skills.

?These approaches and objectives are aligned with the following Sustainable Development Goals (SDG) of the United Nations 2030 Agenda (<https://www.un.org/sustainabledevelopment/es/>), in such a way that the acquisition of the results learning of the subject provides training and competence to contribute to a certain extent to its achievement.

- Goal 2: Zero hunger.
- Goal 3: Ensure healthy lives and promote well-being for all at all ages
- Goal 4: Quality education.
- Goal 5: Gender equality.
- Goal 6: Clean water and sanitation.
- Goal 8: Decent work and economic growth.
- Goal 9: Industry, innovation and infrastructures.
- Goal 12: Sustainable consumption and production
- Goal 13: Climate action
- Goal 14: Oceans
- Goal 15: Sustainably manage forests, combat desertification, halt and reverse land degradation, halt biodiversity loss

### 1.2. Context and importance of this course in the degree

This is the last subject of the degree. Passing it implies obtaining the Graduate Degree in Veterinary Medicine. This subject offers, therefore, the opportunity to evaluate the degree of acquisition and integration of the skills of the degree by students.

Being the last subject addressed, allows the student to put into practice much of the transversal skills acquired during the degree and integrate their knowledge and technical skills to solve problems of various kinds in the veterinary field. In particular, the TFG allows the student to apply, in a semi-professional environment, the knowledge acquired, encourage collaboration, leadership, creativity, innovation, entrepreneurship and teamwork.

### **1.3. Recommendations to take this course**

The TFG is the last subject of studies and can only be defended if all the other subjects of the Degree have been passed. Therefore, the student must have passed or are on the way to passed all subjects of the Degree. At the time of enrolment of this subject, it is essential to be enrolled of the remaining subjects.

In order to carry out practical activities, safety recommendations must be followed, which must be taken into account. Students have all the information available in the following links, as well as in the ADD courses of each of the subjects:

<https://veterinaria.unizar.es/estudiantes/formacion-prevencion-riesgos-y-seguridad#normas>  
<https://veterinaria.unizar.es/prevencion/protocolos-especificos-veterinaria> <http://patologiaanimal.unizar.es/medidas-de-security>

It is recommended that students check out the resource TOOL GUIDE AND GUIDELINES FOR A GOOD TFG.

Online course -through the Virtual Campus of the UNIZAR which aims to be a guide that provides information and indications on the characteristics and development of the End of Degree Project (TFG) to students of the University of Zaragoza. The ultimate objective is to achieve a reflection on the TFG by the students in order to help them plan and prepare their corresponding TFG with minimum quality standards. It is open throughout the academic year and has a permanent consultancy service run by librarians from the University of Zaragoza.

Contents of the course:

- Step 1. Know the rules that govern your TFG
- Step 2. Choose the topic
- Step 3. Choose your bibliographic reference manager
- Step 4. Plan and search for information
- Step 5. Evaluate the information found
- Step 6. Use the information ethically
- Step 7. Write the paper
- Step 8. Once the work is finished... (upload it to the repository, copyright, etc.)

## **2. Learning goals**

### **2.1. Competences**

The student will have acquired all the competences of the degree, which will allow him/her to develop his/her professional activity as a veterinarian (see section "What you learn" on the website of the Graduate in Veterinary Medicine degree (<http://titulaciones.unizar.es/veterinaria/queseaprende.html>)).

### **2.2. Learning goals**

If students complete the course, they should be able to:

1. Deal with a subject of veterinary relevance, understands it, develops it and applies the most appropriate strategies to achieve the objectives proposed in your TFG.
2. Perform a TFG of a level demandable to a professional capable of integrating in the labour market in the veterinary field.
3. Draw up a coherent report that includes the chapters indicated in the section of Evaluation of this guide, that fulfils the requirements demanded and that has an adequate level as for presentation, legibility and comprehension.
4. Defend their TFG memory through an oral presentation before a court, adapting to the specific rules and using the usual resources to do so. The student will have to demonstrate capacity to develop a public exposition directed to a scientific forum, in a clear way, with capacity of synthesis of its work and of reasoned discussion in front of the posed questions.

### **2.3. Importance of learning goals**

The importance of the subject and the relevance of its results are paramount, since it is a global test that shows the use of the work done by the student throughout the different courses and subjects.

## **3. Assessment (1st and 2nd call)**

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

The student will develop a written work (or Memory) according to the established requirements and will have to present it orally in public session.

The student will present a report in accordance with the different modalities established by the End of Degree Work Regulations of the University of Zaragoza:

1. Specific academic works, such as bibliographic reviews.
2. Specific work done in the laboratory, field, Veterinary Hospital, Pilot Plant or other facilities that allow the student to develop their activities or acquire their skills.
3. Specific work carried out as a result of internships in companies or institutions, or within the framework of the Practicum subjects of the degrees of the Faculty of Veterinary Medicine.
4. Equivalent works carried out as a result of a stay in another University, through an agreement or mobility program.

Memory must have a minimum length of 25 pages and a maximum of 40 pages, (excluding cover, index). The "Calibri 11" with a spacing of 1.5 will be used as the source. Justified alignment and margins in normal format.

The Defense will consist of the exposition of the end of degree work for a maximum of 15 minutes and the subsequent period of discussion with the court, which will last a maximum of 15 minutes.

This test will be evaluated following the criteria specified in the Valuation criteria section. Passing this test will credit the achievement of learning outcomes. The overall grade of the student will be from 0 to 10 and will be 100% of the overall grade of the student in the subject.

The Report will represent 45% of the overall grade; Defense of work, taking into account both the presentation and the discussion with the court 35% and finally the Director's report 20% of the final grade. To pass this test it will be necessary to obtain a minimum grade of 5.

#### **Valuation criteria and levels of demand**

The report that the student will submit must include the following aspects:

1. Cover: In established format
2. Index
3. Summary: in Spanish and English (maximum of 300 words each). It will include TFG title in English
4. Introduction (will include the literature review)
5. Justification and Objectives
6. Methodology
7. Results and discussion \*
8. Conclusions (in Spanish and English)
9. Personal assessment. Identification of the contributions that, in learning, have involved the completion of this subject
10. Bibliography. Citations and references will be formatted in Harvard BUZ style  
[http://biblioteca.unizar.es/sites/biblioteca.unizar.es/files/documentos/estilo\\_harvard\\_resumen\\_buz\\_con\\_rss.pdf](http://biblioteca.unizar.es/sites/biblioteca.unizar.es/files/documentos/estilo_harvard_resumen_buz_con_rss.pdf)
11. Annexes (only if necessary)

Reasons for exclusion. Failure to comply with one or more of the following criteria will result in the memory not being deposited:

- Deposit of the report or proposal after the deadline established by the Center
- Title of the report other than that indicated in the TFG proposal Extension greater or less than established
- That the Summary and the conclusions are not in Spanish and English

It will be assessed, among others:

1. Ability to analyse, understand and interpret bibliography, material and methods and the results obtained.
2. The capacity for autonomous learning
3. Innovative character and creativity
4. The capacity for synthesis
5. The correct use of the language, both for Spanish and English.
6. Clarity and order in the expression of concepts
7. Formal aspects, especially presentation and defense

For the evaluation of the above mentioned capacities, the Faculty of Veterinary Medicine makes available to the evaluating panel a system of headings that can be found on the website

#### **Marking system:**

According to the national regulation Law 1025/2003, 5th of September which lays down the European system of credits and

marking system for the university degree.

0-4,9: FAIL.

5,0-6,9: PASS

7,0-8,9: GOOD (NT).

9,0-10: EXCELLENT (SB).

As the article 158 of the Statutes of the University of Zaragoza lays down, provisional grades will be displayed at least for 7 days and students will be able to review them on the date, time and place provided for that purpose.

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

### 4.1. Methodological overview

The methodology followed in this subject is oriented towards achievement of the learning objectives. The student will have to agree with the Director or the Directors of the TFG the formative activities, depending on the proposed subject and modality chosen.

### 4.2. Learning tasks

The subject has been assigned in the curriculum with 6 ECTS (150 hours), invested in:

- Meetings of students with the coordinator of the subject
- Tutorial sessions with the director
- Personal work of the student
- Presentation and defence

Tender lines will be published at the beginning of the academic year. Previous agreements between the student and the director are highly appreciated. The coordinator of the subject and the CGC will ensure that each student has a director before the limit of submission of the proposal

### 4.3. Syllabus

The modalities of TFG will be the following:

- Specific academic work, such as bibliographic reviews.
- Specific work performed in the laboratory, field, Veterinary Hospital, Pilot Plant or other facilities that allow the student to develop their activities or acquire their competencies.
- Specific work done as a result of practices in companies or institutions, or in the framework of the subjects Practicum of the degrees of the Faculty of Veterinary.
- Equivalent work carried out as a result of a stay in another University, through an agreement or mobility program.

Steps to be followed to request the evaluation of the final degree project by the ethical committee of animal welfare:

1st Definition of the TFG at an ethical level. The works are divided into 4 categories:

- Category 1: dead vertebrate animals or samples from vertebrate animals not expressly euthanized will be used in the TFG to carry out the TFG.
- Category 2: vertebrate animals euthanized expressly to carry out the TFG.
- Category 3: the TFG uses samples obtained from living vertebrate animals, and samples are collected that does not necessarily imply the euthanasia of the animal. After obtaining the sample (s), the animal is not subjected to any other manipulation.
- Category 4: live animals are used during the TFG. Anesthetized animals are also included.

2º The application is made by the DIRECTOR of the TFG and the applications can be downloaded here, in the teaching practice evaluation section: <http://cea.unizar.es/solicitud.html?menu=procedimientos&#pd&menu=procedimientos>

3º Once the form has been completed, the signed copy must be sent to: Ethical Advisory Commission for Animal Experimentation. UPS building. Campus Plaza San Francisco. C / Pedro Cerbuna, 12. 50009-Zaragoza Phone: 976762847 [cea@unizar.es](mailto:cea@unizar.es)

4th, If you already have a previous report from UNIZAR, another University or another Research Center, it is not necessary to request it again. The official number assigned to that procedure must be indicated.

5th It is also necessary to apply if at work you plan to handle animals in a private clinic, or livestock farm, etc. In these cases, it is advisable to indicate the farm's registration number or whether the Faculty has an agreement with the farm or with the clinic.

In case of doubt, you can consult the secretary of the Ethics Commission of the University of Zaragoza or direct the consultation to the president of the Quality Assurance Commission or to the Coordinator of the subject.

#### **4.4. Course planning and calendar**

The dates and key milestones of the subject will be presented on the website of the Faculty of Veterinary Medicine (link: <https://veterinaria.unizar.es/academico/trabajo-fin-de-grado-grado-veterinaria>). This link will be updated at the beginning of each academic year.