

28402 - Ethnology and animal well-being

Información del Plan Docente

Academic Year	2017/18
Faculty / School	105 - Facultad de Veterinaria
Degree	451 - Degree in Veterinary Science
ECTS	9.0
Year	1
Semester	Annual
Subject Type	Compulsory
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

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

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

5.1. Presentation of the global methodology

Ethnology

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The learning process of this subject is based in all the next activities:

Theory. The program indicated for the subject will be developed in this activity, see point 5.3. This program will be previously known by the students with respect to the annual program and with respect to a guide book. All this will be complemented with other resources as CDs, typed sheets and triptychs.

Practice. Breed diagnosis, these lessons will be related with breed differentiation in the most important domestic species. Many of them will be prepared by the own students, always helped by the teachers of the subject.

Practice in classroom. About reproductive and productive problems.

Practice. Personal work about any theme related with the Ethnology: any breed, variety, breed group, and also about morphological aspects, social opinions and/or utility.

Practice. Management of 3 different species. In this on-farm lectures, the main morphological aspects and identification systems for each species will also be showed.

Animal fair.

Personal and continuous evaluation. This evaluation will be related with all the points related across the academic period. For example of that, small tests will be performed, they will be run in the own classroom, with evaluation at the moment and with a positive note for all the students with excellent results.

Animal Welfare

The learning group in this part of the course will use the following teaching resources:

-Lectures in the classroom

-Practices in the video room with digital video of our animal welfare experiments.

-Practices with animals in the experimental farm (welfare assessment in laying hens)

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- Field studies in groups of four students. Data collection, data analysis, field report presentation.
- Case studies (home work) and resolution in classroom with the instructor (mainly focussed in animal welfare legislation application to real cases).
- Tutorials in lab/office (mainly related to the design and realization of the field works)
- Seminar and debate with invited speaker (expert of some animal welfare hot topics).
- Course frame in the Digital Platform of the University *Moddle2* (all material and students communication will be conducted in this digital platform).
- Theory evaluation (multiple choice-test) at the end of the course (weight 60%).
- Evaluation of home works, case studies and field work reports (weight 40%).
- Tutorials by e-mail with the instructor.
- Availability at the beginning of the Course Manual "*Animal Welfare*" (114 pp.), prepared by the responsible teacher, including all the material explained in the course in class, actualized every year with the most recent material related to animal welfare topics in Europe. The manual contain all the recommended literature used in the elaboration of the manual. This manual will be mainly useful for those students with difficulties to attend the theory classes, complemented with tutorial by e-mail or in the lab/office.
- Availability at the beginning of the course of the PDF version of the Power Point presentations of the Instructors (in the digital platform).
- Availability of all case studies to be solved by the student in hard copy and pdf, before the case resolution in class with the instructors.
- At the end of the course and after exams, students will be able to evaluate the course and the instructors. This evaluation will be realized using the digital platform of the University (ATENEA).

5.2.Learning tasks

Ethnology

The program offered to help the student to get the results includes the next programmed activities:

- Theory in classroom.
- Practical lesson in classroom.
- Practical lessons on-farm.

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-Personal work.

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All classes and activities will be programmed at the beginning of the course (Animal Welfare Course will start in early February -spring term-). Please, see groups and calendars in the web site of the Faculty of Veterinary Medicine, and check periodically for possible small changes during the course. <http://wzar.unizar.es/servicios/calendario>

5.3.Syllabus

Activity	Hours Theory	Hours Practice	Group Size
Introduction			
Introduction to the subject and main definitions	1	-	-
Systematic of the breed classifications. Baron.	1	-	-
Physiology-related productive indexes (reproductive, farm and productive).	4	-	-
Productive and reproductive problems).		1	24
Work related with the Ethnology. Half an hour about methodology aspects and half and hour about individual attention.		1	75 and personal
Identification of farm animals (natural,	2	-	-

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artificial methods).			
Identification of farm animals.		2	24
Management and regional peculiarities			
Small ruminants.		1	6
Horses.		1	6
Chicken.		1	6
Animal fair			
Multi-species, farm and animal wild park.		1	12
Breed differentiation.			
Horses. (Introduction, big breed, other breed, donkeys and hybrids).	2		
Bovines. (Introduction, world breeds grouped by aptitudes and Spanish breeds).	4		
Clues to bovine breed differentiation.		1	24
Ovine. (Introduction, world breeds grouped by ethnological types and Spanish breeds).	4		

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Clues to ovine breed differentiation.		1	24
Goats. (Introduction world breeds grouped by aptitudes and Spanish breeds).	2		
Clues to goat breed differentiation.		1	24
Pigs. (Introduction, hybrids, world breeds and Spanish breeds).	2		
Clues to pig breed differentiation.		1	24
Rabbits. (Introduction and breed classification).	1		
Clues to rabbit breed differentiation.		1	24
Poultry. (Introduction, main breeds inside the main species).	1		
Clues to poultry breed differentiation.		1	24
Pet birds. (Introduction and classification of the main species).	1		
Dogs. (Introduction and main aspect related with this	2	2	

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species).			
Cats. (Introduction and main breeds).			48
Clues to cat breeds differentiation.		1	
			24
TOTAL (hours)	28	17	

Animal Welfare

Animal Welfare. Thematic program.

Theme

- I Animal welfare. Concepts and definition
- I.1 Animal Welfare in the context of the agro-ecosystem.
- I.2 Ethic and animal welfare
- I.3 The human-animal bond
- I.4 Violence and animal abuse
- I.5 Animal welfare and the food market
- I.6 Ethnology and animal welfare
- I.7 Problems derived from animal confinement

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- I.8 Relation between production and animal welfare
- I.9 Genetic selection for productivity and its effect on animal welfare
- II Animal welfare: adaptive response (stress) and definition
 - II.1 Biological cost of the adaptation
 - II.3 Animal welfare definitions
- III Animal welfare assessment
 - III.1 Multi-index approach for animal welfare assessment
 - III.2 Levels of assessment
 - III.3 Animal welfare indicators: sensitivity to stress
 - III.4 The *Welfare Quality* approach in the UE
 - III.5 Animal welfare as a production aim
 - III.6 Animal production systems and animal welfare
- IV Common aspects to al systems: transport and handling
 - IV.1 Transport and animal welfare
 - IV.2 Transport as a housing system
 - IV.3 Rules for animal transportation in UE
 - IV.4 Critical points during transport: ventilation and environmental control

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IV.5	The concepts of natural handling of livestock
IV.6	Strategies for livestock natural handling
IV.7	Vision type of domestic animal. Fearfulness in dichromatic animals.
IV.8	Stress factors during transport
V.	Fear reaction. Concepts.
V.1	Fear definition. Assessment of negative emotions. Related terms.
V.2	Fear assessment.
V.3	Determining factors of fear.
VI	Concepts of pain
VI.1	Pain definition
VI.2	Assessment of pain
VII	Concept of suffering
VII.1	Definition of suffering
VII.2	Sensory and cognitive capacities. Welfare implications
VII.3	Recognising and assessment animal suffering
VIII	Stress response and meat quality
VIII.1	Pre-slaughter handling and welfare consequences
VIII.2	Effect of stress on meat quality

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VIII.3	Post-mortem metabolic changes and meat quality
VIII.4	Stress related meat defects
IX.1	The slaughter process
IX.2	Ante-mortem inspection
IX.3	Stunning and slaughter
IX.4	Stunning and slaughter control PNT. The welfare responsible figure.
	<i>Animal production systems. Critical points associated to animal welfare.</i>
X	The egg production system using battery cage. Laying hens.
XI	The poultry meat production system with broiler.
XII	The swine meat production system with high prolific sows.
XIII	The intensive cattle milk production system.
XIV	The cattle intensive meat production system. Feed lot.
XV	The livestock contribution to the greenhouse gas emissions (GGELS)
	The intensive lamb meat production system using classification centres.
XVI	<i>Welfare issues on companion animals and no domestic confined animals</i>
XVII	Dog and cat applied Ethology concepts

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XVIII	Aspects of animal welfare of companion animals.
XIV	Aspects of animal welfare on captive no-domestic animals (Zoo-like systems)

5.4.Course planning and calendar

Ethnology

The time table of the Ethnology will be adapted to the academic calendar. Each student will receive a total of 28 hours of theory and 17 hours of practical lessons. These last include: 4 hours of animal management, 2 hour of identification methods, 9 hours of breed differentiation (see program), 1 hour of solving productive and reproductive problems and 1 hour for preparing the index and methodology of the personal work..

This personal work will be presented at the end of the Christmas time and will be evaluated during January. In any case some voluntary sessions of personal auto-evaluation will be performed.

For a more detailed calendar see:

<http://wzar.unizar.es/servicios/calendario>

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Summary table for the results and methodology used in the animal welfare part (spring term)			
The academic calendar offer a total of 27 lecture hours (theory) and 18 "non-theoretical" lecture hours (practices in lab/hospital, practices in farm, field studies, case studies and seminars).			
Results	Methodology	Credits	Evaluation
1. To understand and explain the animal welfare issues in the EU, in the context of the agro-ecosystem and all animals under the care of humans.	Lectures and manual Documents on digital platform Field surveys Reports and posters	0,25	Exam Field work Case studies
2. To know and explain the ethical compromise of the Vet Professionals in relation to the animal welfare issues in EU. To know and understand the importance of the human animal bond and to detect cases of animal violence and abuse.	Lectures and manual Survey, reports Document available on digital platform	0,25	Exam Case studies
3. To know the animal welfare definition according to the new EU concept based on the five freedoms.	Lectures and manual Documents available in digital platform	0,75	Exam
4. To know the physiological base of the stress response in domestic and other captive animals.	Lectures and manual Documents available in digital	0,40	Exam

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	platform		
5. To understand the relationship between animal welfare and product quality (including the ethical value of the product).	Lectures and manual Case studies Documents available in digital platform	0,20	Exam Case studies Home work
6. To know the animal welfare assessment methods and the animal welfare indicators in function of its validity, feasibility and viability.	Lectures Practices in farm Case studies Documents available in digital platform	0,20	Exam Practice farm Cases studies Home work
7. To know the animal welfare legislation and to use this legislation in case studies based on case studies.	Case studies Documents available in digital platform	0,50	Cases studies Home work
8. To know the main intensive animal production systems (overview), with a critical perspective in relation to the animal welfare risks, proposing possible solutions in the context of the new food markets.	Lectures Case studies Documents available in digital platform	1,00	Exam Case studies Home work Practice at the farm
9. To evaluate and distinguish the normal and abnormal behaviours in dog and cats.	Lectures Practices in lab	0,50	Exam Practice in hospital

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10. To recognize the critical points for animal welfare in companion animals.	Lectures	0,25	Exam
11. To recognize the critical points for animal welfare in no-domestic captive animals (Zoo-type)	Lectures Seminar	0,20	Exam
Animal Welfare		4,5	Exam 60% Others 40%

5.5. Bibliography and recommended resources

Ethnology

Atlas of the world domestic farm animals. Editorial Servet, 2011. Author Carlos Sañudo Astiz. (A large basic bibliography it is also indicated in this book).

Also a list of recommended bibliography could be found in the site of the Library of the Zaragoza University (<http://biblioteca.unizar.es/biblioteca-para-ti/estudiantes>).

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