UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
Calea Mănăştur 3-5, 400372, Cluj-Napoca
Tel: 0264-596.384, Fax: 0264-593.792
www.usamvcluj.ro

Nr._____by _____ **Form code USAMV 0312010101**

SUBJECT OUTLINE

1. General data/ Information on the programme

1.1. Higher Education Institution	University of Agricultural Science and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Animal Science and Biotechnology
1.3. Departament	Fundamental Sciences
1.4.Domain of study	Animal Science
1.5.Level of study[1)]	Master
1.6. Program of study	Ethology and human-animal interaction
1.7. Form of teaching	IF

2. Characteristics of the course / Information on the discipline

2.1. Name of the course	**Animal Behaviour and Animal Welfare 1**							
2.2. Course leader				**Assoc.prof. Ioan Ladoşi Ph.D.**				
2.3. Coordinator of the laboratory/seminars activity				**Assoc.prof Ioan Ladoşi Ph.D.**				
2.4. Year of study	I	2.5. Semester	I	2.6. Type of Evaluation	Sumative	2.7. Course regime	Content[2]	DCA
							Complulsoryness[3]	CD

3. Total estimated time (hours/semester for the teaching activities)

3.1. Number of hours/week– frequency form	3	Of which: 3.2. course	1	3.3. seminar/ laboratory/ project	2
3.4.Total hours in the teaching curricula	42	Of which: 3.5.course	14	3.6.seminar/laboratory	28

Distribution of time	hours
3.4.1.Study based on hand book, notes, bibliography	35
3.4.2. Extra documentation in the library, on specific electronic platforms and on field	28
3.4.3. Prepare the seminars / laboratories / projects, theme, essays,reports, portofolio	30
3.4.4.Tutorial	10
3.4.5.Examination	5
3.4.6. Other activities	-

3.7. Total hours of individual study	108
3.8. Total hours on semester	150
3.9. Number of ECTS [4]	6

4. Pre-conditions (if aplicable)

4.1. of curriculum	Anatomy, Physiology, Ecology, Microbiology, Pathology,
4.2. of competences	Ethology, Animal psychology

5. Conditions (where is the case)

5.1. of course development	Teaching manuals: Broom Donald M.and Andrew F. Fraser (2015)- see references Lecture notes: by student Course presentations in pptx format: course holder Logistic support: video projector, interactive whiteboard and PowerPoint presentations. Participation in a minimum of 50% of courses is a condition for participation in the exam.
5.2. of seminar/laboratory/project development	Teaching manuals: Ingvar Ekesbo & Stephan Gunnarson (2018) – see references Laboratory/seminar notes: by student Place of laboratory: laboratory room / resort / place of private partner sector Laboratory equipment: n/a Specialized Software used:Kahoot/ Prezi Specific laboratory reagents/supplies: n/a Participation in 100% laboratory/seminar work is a condition for the exam participation.

6. Specific competences gained

Proffesional competences	1) The formation of theoretical and practical skills by correlating the information received with those acquired in the disciplines: Animal Cognition and Consciousness/ Animal Health and Diseases 2) The training of specialists in the field of animal behavior who have the ability to follow master programs in the field of ethology and human – animal interaction with orientation towards theoretical and applicative aspects of animal welfare 3) Learning outcomes which allow the formation of skills and practical skills in dynamics of the field: Animal Behavior and Animal Welfare
Transversal competences	1) The use of theoretical aspects learned in solving practical problems. 2) Developing the capacities to use the information received within other disciplines: Animal Cognition and Consciousness/ Animal Health and Diseases 3) Ability to work in a team. 4) Use of specialized terminology in various contexts. 5) Compliance with the principles of professional ethics.

7. Learning outcomes

7.1 Knowledge	The Master students demonstrates a solid understanding of animal behaviour and welfare concepts, including behavioural patterns and social structures in various domestic species, wild and exotic animals, and non-conventional domestic species. They are familiar with methods of behavioural assessment and the principles underlying species-appropriate welfare practices, including hobby farming contexts.
7.2 Skills	The Master students applies tools for observing and measuring animal behaviour, interprets species-specific responses in diverse environments, and develops tailored welfare strategies. They are capable of adapting their approach to behavioural needs across a range of species and animals kept in small-scale or commercial /non-commercial farming systems.
7.3 Responsibility and autonomy	The Master students assumes ethical responsibility in evaluating and promoting animal welfare, demonstrating critical thinking in applying behaviour-based assessments. They contribute independently to the implementation of welfare measures across traditional, exotic, and hobby-based animal care settings, promoting respectful and informed human-animal interactions.

8. Course Objectives (as a result of the specific competences gained)

8.1. Overall course objective	Complementary advanced discipline for advanced knowledge that allows the development of knowledge regarding the implications of animal behavior in animal welfare Together with the other disciplines in the curriculum, it ensures the implementation and formation of complex concepts on developing the theoretical principles of behavior, but also learning how to harness these principles to tackle real-world animal welfare issues.
8.2. Specific objective	Obtaining learning outcomes that aim in the formation of skills and abilities based on the correlation of the information received with those acquired in other disciplines such as Animal Cognition and Consciousness/ Animal Health and Diseases

9. Content

9.1. LECTURE **Number of hours – 14**	Methods of teaching	Observations 1 lecture=1 hour
L1 - General and introductory concepts		1
L2 – History of behavioural sciences		1
L3 - Patterns of animal behavior		1
L4 – L5 Genetics, emotions & behaviour	ppt, images, short videos	2
L6 – Feeding behaviour		1
L7 - Courtship & Mating behaviour		1
L8 – Animal welfare during transport		1
L 9-10 - Maternal behaviour in mammals		2
L 11-12 - Improving farm animal welfare		2
L 13-14 - Welfare assessment principles & criteria in farm animals		2

9.2.PRACTICAL WORK/ SEMINARS **Number of hours – 28**		
S1 – Recognising types of behaviours: innate vs. learned	ppt, images, short videos to identify, open discussions	2
S2 – Abnormal animal behaviours		2
S3 – Animal emotions and welfare implications		2
S4 – Experiments on animal behaviours		2
S6 – Body scoring and welfare		2
S7 – Animal welfare- options & choices		2
S8 – Welfare issues in farming animals		2
S8 – Practical implications of farming animals reproductive behavior		2
S9 – UE legislation changes on farming species		2
S 10 – Auditing animal welfare in different farming systems		4
S12 – Practicalities of improving animal welfare		2
S13-14 – Economical implications of implementing welfare standards		4

Compulsory readings/ references:

Ingvar Ekesbo & Stephan Gunnarson (2018) Farm animal behavior: characteristics for assessment of health and welfare, 2nd edition, CABI, ISBN-13: 978 1 78639 139 1

Broom Donald M.and Andrew F. Fraser (2015).Domestic animal behavior and welfare 5th ed. CAB International, ISBN 978-1-78067-563-6

Edward N. Eadie (2011) Education For Animal Welfare. Ed Springer. ISSN 1572-7408, ISBN 978-3-642-16813-0, DOI 10.1007/978-3-642-16814-7

James K. Kirkwood, Robert C. Hubrecht and Elizabeth A. Roberts (2003)- Environmental enrichment for captive animals Ed. Blackwell Science Ltd, a Blackwell Publishing Company, ISBN 0-632-06407-2

Kai Horsthemke (2018)- Animal Rights Education. ISBN 978-3-319-98593-0 (eBook), https://doi.org/10.1007/978-3-319-98593-0

Nielse Birte (2020) Asking Animals An Introduction to Animal Behaviour Testing. Ed. CABI, ISBN 9781789240627

Optional bibliography:

Moberg G.P. and J.A. Mench (2000). The Biology Of Animal Stress. Basic Principles And Implications For Animal Welfare. Ed. CAB International, ISBN 0-85199-359-1

10. Corroboration of the subject content with the expectations of the epistemic communities` representatives,of the proffesional associations and representatives employers in the domain

The course has a similar content compared with other European universities courses and takes into account the level of preparation of students and it is important / fundamental for the development of working skills as future specialists in the graduated field

The course will provide a solid grounding in the field that can be applied to: research, animal management , animal care & production, inspection, assessment and preparation of legislation being consistent with themes and approach in other universities in the country and abroad and in line with the other stakeholders.

11. Evaluation

Type of activity	11.1. Assessment criteria	11.2. Assessment methods	11.3. Percentage of the final grade
11.4. Lecture	Basic principles in the recognition and appreciation of the behavioural signs and levels of animal welfare in animal species	Oral exam	50%
11.5. Laboratory	Objective assessment of animal welfare based on various behaviors	Practical exam	30%
	Preparation of an essay specific to the course themes based on the proposed topics	Oral presentation of the essay in ppt	20%
11.6.Minimal standard of performance Knowledge 50% of the information contained in the course. Knowledge 50% of the information provided at seminar. 100% attendance at seminars is mandatory. Attendance at 50% courses/ lectures is a condition for entering the exam.			

[1] Education levels- choose of the three options: Bachelor/ * Master/Ph.D.

[2] Discipline status (content) – for the Master level choose one of the following options - **DA** (advanced discipline**), DCA** (advanced knowledge discipline)**, CSD** (complementary study discipline), **SD** (synthesis discipline)**.**

Discipline status (content)- for the undergraduate level, choose one of the options:- **FD** (fundamental discipline), **BD** (basic discipline), **CS** (specific disciplines-clinical sciences), **AP** (specific disciplines-animal production), **FH** (specific disciplines-food hygiene), **UO** (disciplines based on the university's options).

[3/] Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).

[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

[5 / *] Disciplines: AK- Advanced knowledge, CT- Complementary Training, S- Synthesis

Filled in on
12.09.2025

Course coordinator
Assoc.prof. Ioan LADOȘI Ph.D

Seminar coordinator
Assoc.prof.Ioan LADOȘI Ph.D

Discipline coordinator,
Assoc.prof.Ioan LADOȘI Ph.D

Approved by the
department on
.....

Head of the Department
Assoc.prof. Dr. Cristian O. COROIAN
……..

Appoved by the Faculty
Council

.....

Dean,
Prof. dr. Daniel S. DEZMIREAN

.....

UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
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USAMV form 0312010102

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Animal Science and Biotechnologies
1.3. Department	Fundamental sciences
1.4. Field of study	Animal Science
1.5.Education level	Master
1.6.Specialization/ Study programme	**Ethology and human-animal interactions**
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	**Animal Cognition and Consciousness**							
2.2. Course coordinator				**Prof. Dr. Alina Simona Rusu**				
2.3. Seminar/ laboratory/ project coordinator				**Prof. Dr. Alina Simona Rusu**				
2.4. Year of study	I	2.5. Semeste	I	2.6. Type of evaluation	sumative	2.7. Discipline status	Content[2]	FD
							Compulsoriness[3]	CD

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	2	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	1
3.4.Total number of hours in the curriculum	28	Out of which: 3.5.lecture	14	3.6.seminar/laboratory	14
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes					30
3.4.2. Additional documentation in the library, specialized electronic platforms and field					20
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					35
3.4.4.Tutorials					10
3.4.5.Examinations					2
3.4.6. Other activities					

3.7. Total hours of individual study	97
3.8. Total hours per semester	125
3.9. Number of credits[4]	**5**

4. Prerequisite (if applicable)

5. Conditions (if applicable)

5.1. for the lecture	The course is interactive, students can ask questions regarding the content of lecture. Academic discipline requires compliance with the start and end of the course. We do not allow any other activities during the lecture, mobile phones

	will be turned off.
5.2. for the seminar/ laboratory/ project	During practical works, each student will develop an individual activity with laboratory materials (made available in the book that describes the laboratory work). Academic discipline is imposed throughout the course of practical works.

6. Specific competences acquired

Professional competences	Understanding, critical analysis and application of scientific research methods on the evolution and operationalization of consciousness and cognitive processes in animals, with applicability in the integrative understanding of animal behavior patterns and responsible human-animal interactions. Ability to access scientific sources in terms of experimental models and interpretive frameworks of the concepts addressed. Ability to present in an applicative manner some topics associated with the discipline.
Transversal competences	Trans- and interdisciplinary thinking skills, through the analytical presentation of models from different disciplines in the scientific study and interpretation of cognitive processes and consciousness in animals, as well as planning interventions to manage human-animal interactions in accordance with understanding these concepts. Abilities to analyze the applicability of the models presented in the professional training in the direction of optimizing the human-animal interaction and increasing the quality of life.

7. Learning outcomes

7.1 Knowledge	The student/graduate demonstrates an in-depth understanding of animal cognition, emotional processes, and indicators of consciousness. They are familiar with foundational concepts in psychology and their application to human-animal interactions in anthrozoological contexts.
7.2 Skills	The student/graduate analyses cognitive and emotional responses in animals, interprets behavioural indicators of mental states, and applies psychological frameworks to assess and support animal well-being within interspecies relationships.
7.3 Responsibility and autonomy	The student/graduate acts ethically and thoughtfully in evaluating animal cognition and emotional states, contributing to informed decision-making in research and practice. They promote responsible human-animal interactions based on a nuanced understanding of animal consciousness and psychological needs.

8. Course objectives (based on the list of competences acquired)

8.1. Overall course objective	Deepening of the understanding and using of working definitions from a comparative perspective of cognitive processes, intelligence, attention, reasoning, decision-making mechanisms and animal consciousness, in relation to social and environmental challenges.
8.2. Specific objectives	• Analysis of experimental and observational methods for approaching cognitive processes and consciousness, with emphasis on the importance of interpretations in the ecological context of mental processes in animals. • The use of interpretive perspectives on animal consciousness based on the analysis of ways of communication and information processing.

9. Content

9.1.LECTURES **Number of hours – 14**	Teaching methods	Notes 1 lecture = 2 hours
COMPARATIVE COGNITION - OPERATIONS	lecture, heuristic conversation, explanation	One lecture
PERCEPTUAL WAYS AND ATTENTION PROCESSES IN ANIMALS		2 lectures

ANIMAL LEARNING: QUESTIONS HOW AND WHY		2 lecture
ANIMAL LEARNING AND SOCIAL COGNITION		2 lectures
MEMORY - ANIMAL PROCESSES AND CIRCUITS IN ANIMALS		One lecture
SPACE EXPLORATION STRATEGIES AND PERCEPTION OF TIME IN ANIMALS		One lecture
SYMBOLIC COMMUNICATION AND THE EVOLUTION OF LANGUAGE		Two lectures
THEORIES REGARDING THE EVOLUTION OF THE MIND IN ANIMALS		One lecture
AFFECTS AND INTRAPSYCHIC PROCESSES IN ANIMALS		2 lectures

9.2. PRACTICAL WORK **Number of hours –14**	Theoretical presentation of practical works	1 lab work (2 hours / work)
Observational and experimental methods in the analysis of cognitive processes in mammals, self-awareness - Examples of scientific studies conducted in the Family Dog Project, Animal Cognition Lab		2 lab work
Observational and experimental methods in the analysis of cognitive processes in birds		2 lab work
Familiarization with DogFACS and CatFACS animal emotion coding systems - analysis of videos filmed by students using the FACS system.		2 lab work
Analysis of scientific studies and reports on the use of tools in animals - critical analysis and reflections on functions in the context of interaction with the environment -		One lab work
Behaviors related to attachment and expression of emotional states in animals - viewing and analysis of TED x Talks / documentation and critical analysis of several papers in the field.		One lab work
Social learning, information manipulation and animal theory of mind (ToM) - analysis of research projects		2 lab work
Research in the field of cognitive processes and consciousness in primates in wild conditions - examples of research projects		2 lab work 2 lab work
Behavioral indicators of positive effects in human-animal interactions - examples of scientific studies		

Compulsory bibliography:

Lecture notes

- Birch, J., Schnell, A., & Clayton, N. (2020). **Dimensions of Animal Consciousness**. Trends in cognitive sciences, 24 (10), 789-801.
- Boissy, A., & Erhard, H.W. (2014). How Studying Interactions Between Animal Emotions, Cognition, and Personality Can Contrib Farm Animal Welfare. In Genetics and the Behaviour of Domestic Animals. Second Edition, Academic Press. Pages 81-113.
- Shettleworth, S.J. (2102). Do animals have insight and what is insight anyway? *Canadian Journal of Experimental Psychology, 666,* 217-226.
- Humphrey, T., Proops, L., Forman, J. *et al.* (2020). The role of cat eye narrowing movements in cat–human communication. *Sci Rep* **10,** 16503, https://doi.org/10.1038/s41598-020-73426-0

- Dugatkin, L.A. (2019). Principles of Animal Behavior. Forth Edition.
- Pennartz, C. M. A., Farisco, M., & Evers, K. (2019). Indicators and criteria of consciousness in animals and intelligent machines: A approach. *Frontiers in Systems Neuroscience, 13,* Article 25. https://doi.org/10.3389/fnsys.2019.00025
- Budaev, S., Jørgensen, C., Mangel, M., Eliassen, S., Giske, J. (2019). Decision-making from the animal perspective: Bridging ecology and subjective cognition. Frontiers in Ecology and Evolution, 7, 164, doi: 10.3389/fevo.2019.00164.
- Family Dog Project: https://familydogproject.elte.hu/
- CatFACS: Caeiro, C.C., Burrows, A.M., Waller, B.M., 2017. Development and application of CatFACS: Are human cat adopters influenced by cat facial expressions? Applied Animal Behaviour Science 189, 66–78.

Optional bibliography

Boly, M., Seth, A. K., Wilke, M., Ingmundson, P., Baars, B., Laureys, S. (2013). Consciousness in humans and non-human animals: recent advances and future directions. Front. Psychol. 4:625.. PMID: 24198791 https://doi.org/ 10.3389/fpsyg.2013.00625

de Waal, F.B.M. (2009). Animal emotions. In: *Oxford Companion to the Affective Sciences*. D. Sander & K. R. Scherer (Eds.), pp. 33-36. Oxford: Oxford University Press.

Frans de Waal TED x talks on reconciliation and social life of primates: https://www.ted.com/speakers/frans_de_waal

Online Resources for Animal Behavior Students: http://www.animalbehaviorsociety.org/web/applied-behavior-resources.php

Public educational platform for understanding Evolutionary Biology/ Evolution Matters: https://eseb.org/evolution/

Gácsi, M., Miklód, Á, Varga, O., Topál, J. & Csányi, V. Are readers of our face readers of our minds? Dogs (Canis familiaris) show situation-dependent recognition of human's attention. *Anim. Cogn.* **7**, 144–153 (2004).

Proctor, H. S. & Carder, G. Measuring positive emotions in cows: do visible eye whites tell us anything?. *Physiol. Behav.* **147**, 1–6 (2015).

Hintze, S., Smith, S., Patt, A., Bachmann, I. & Würbel, H. Are eyes a mirror of the soul? What eye wrinkles reveal about a horse's emotional state. *PLoS ONE* **11**, e0164017 (2016).

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant stakeholders in the corresponding field

The course has a similar content compared with other European universities courses and takes into account the level of preparation of students. The course provides information with applicability in professional training in the field of specialization, in accordance with the National Register of Qualifications in Higher Education (http://www.rncis.ro).

11. Assessment

Type of activity	11.1. Assessment criteria	11.2. Assessment methods	11.3. Percentage of the final grade
Lecture	Use of discipline-specific language and evidence-based bibliographic references.	Test Oral/Written format *by choice	70%
Seminar/Laboratory	Making a report with three analyzes of videos on the identification of emotions in three species of animals, based on the use of the FACS system.	Presentation of the project in a template indicated by the teacher.	30%
Minimum performance standards			
Knowledge 50% of the information contained in the course. Knowledge 50% of the information provided at practical work / seminar. 100% attendance at practical work / seminars is mandatory. Attendance at 50% courses is a condition for entering the exam. Mastery of information transmitted through lectures and practical works at an acceptable level. Obtaining the passing note 5 (five) is a condition of promovability.			

[1] Education levels- choose of the three options: Bachelor/ * Master/Ph.D.

[2] Discipline status (content)- for the undergraduate level, choose one of the options:- **FD** (fundamental discipline), **BD** (basic discipline), **CS** (specific disciplines-clinical sciences), **AP** (specific disciplines-animal production), **FH** (specific disciplines-food hygiene), **UO** (disciplines based on the university's options).

[3/] Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).

[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

[5 / *] Disciplines: AK- Advanced knowledge, CT- Complementary Training, S- Synthesis

Filled in on

Course coordinator
Prof. Dr. Alina Simona Rusu

Laboratory work/seminar coordinator
Prof. Dr. Alina Simona Rusu

Subject coordinator
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Approved by the Department on
.....

Head of the Department
Assoc prof. Dr. Constantinescu Radu
.....

Approved by the Faculty Council on
.....

Dean
Prof. Dr. Dezmirean Daniel Severus

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UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
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Nr._____din _____ **Form USAMV CN 0312010103**

SUBJECT OUTLINE

1. Information on the program

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Animal Science and Biotechnologies
1.3. Department	Fundamental Sciences
1.4. Field of study	Animal Science
1.5. Cycle of study[1]	Master
1.6. Specialization / Study programme	**Ethology and Human-Animal Interaction**
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	**Academic Ethics and Integrity**							
2.2. Course coordinator				**Prof. Dr. Alina Simona Rusu**				
2.3. Seminar / laboratory / project coordinator								
2.4. Year of study	I	2.5. Semester	I	2.6. Type of evaluation	Continous	2.7. Discipline status	Content[2]	UO
							Compulsoriness[3]	CD

3. Total estimated time (teaching hours per semester)

4. Prerequisites (is applicable)

3.1. Hours per week – full time programme	2	Out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	-
3.4. Total number of hours in the curriculum	14	Out of which: 3.5. lecture	14	3.6. seminar/laboratory	
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes					22
3.4.2. Additional documenting in the library, specialized electronic platforms and field					15
3.4.3. Preparing seminars / laboratories / projects, subjects, reports, portfolios and essays					20
3.4.4. Tutorials					2
3.4.5. Examinations					2
3.4.6. Other activities					-
3.7. Total hours of individual study	61				
3.8. Total hours per semester	75				
3.9. Number of credits[4]	3				

4.1. curriculum-related	Not applicable
4.2. skills-related	Not applicable

5. Conditions (if applicable)

5.1. For the lecture	The lectures are delivered in an interactive manner, i.e. students can ask questions regarding the content. In case the lectures are delivered online, the teaching activities will be adapted accordingly to ensure maximum comprehension of the information, as well as optimal engagement in the teaching process of the students.
5.2. For the seminar/ laboratory/	

project	

6. Specific competences acquired

Professional competences	Students are expected to gain competences specific to academic ethics and academic integrity, such as critical thinking, identification of their own moral values and assertive communication. This course aims to enable students to develop ethical driven academic papers (semminar projects, essays, theses and dissertations) according to the latest standards in the field. The course will allow students to search electronic databases to identify the latest developments in the field, to manage bibliographic references and to use them in accordance with national and international laws on plagiarism.
Transversal competences	• Competences related to the main of view in academic ethics and abilities to recognise and solve problems with ethical implications (moral dilemmas). • Ability to apply the knowledge to the writing of non-academic documents (e.g. letter of intent, bio notes, e-mails, resumes, CVs). • Theoretical and procedural knowledge required to understand, respect, and implement ethical codes and professional integrity, such as (but not limited to) the laws and regulations regarding plagiarism and other forms of intelectual and moral misconduct.

7. Learning outcomes

7.1 Knowledge	The student/graduate recognizes knowledge of ethical standards relevant to learning and research, as well as interactions within the academic community.
7.2 Skills	The student/graduate applies ethical principles in preparation and presentation of all types of academic work and utilizes the officially indicated digital tools to avoid plagiarism.
7.3 Responsibility and autonomy	The student/graduate upholds and promotes ethics and integrity standards throughout academic and professional activities, in accordance to national and EU legislation.

8. Course objectives (based on the list of competences acquired)

8.1. Overall course objective	This course is intended to familiarize the student with concepts and approaches in academic ethics and academic integrity. The course is compulsory for students of the first year.
8.2. Specific objectives	• Developing the knowledge of the main perspectives regarding ethics and academic integrity. • Ability to identify the values of a moral university and how students can contribute to their development and prevention of misconduct. • The ability to prevent different forms of plagiarism and correctly understand the guidelines for publishing scientific materials, including dissertation work.

9. Contents

9.1.Lectures **Number of hours – 14**	Teaching methods	Observations One lecture = one hour
Introductory framework and presentation of ethical regulations in the academic environment - Interdisciplinary and integrative approaches	Presentation/ Lecture	2
Approaches of analyzing an ethical problem. Frameworks and	Lecture	2

benchmarks of moral evaluations. Connections to the field of specialization.		2
The translation of moral values into prosocial behaviors among students	Lecture	2
Characteristics and values of a moral university - Institutional tools for promoting ethics and academic integrity	Lecture	2
Intellectual property, copyright, the concept of plagiarism and methods to avoid plagiarism	Lecture	2
Tools for determining the degree of originality - what does citing the source mean	Lecture	1
Instructions for authors in scientific publications and research ethics statements	Lecture	

Compulsory references:

Socaciu, E., Vică, C., Mihailov, E., Gibea, T., Mureșan, V., & Constantinescu, M. (2023). Etică și Integritate Academică. Universitatea din București. Capitolele I-IV. Accesibil online în format pdf.

Bailey, S. (2015). Academic Writing: A Handbook For International Students, The forth Edition. London and New York: Routledge. Available online at: https://bowenstaff.bowen.edu.ng/lectureslides/158559278 7.pdf

Rusu, A.S. (2021). Etică și Integritate Academică. Abordări Interdisciplinare (Manual didactic). Editura Presa Universitară Clujeană. Disponibil gratuit în format e-book.
http://www.editura.ubbcluj.ro/www/ro/ebooks/authors_d.php?ida=190

***Codul de Etică al USAMV Cluj-Napoca https://www.usamvcluj.ro/codul-de-etica/
***Punctele tari de caracter și virtuți https://www.viacharacter.org/
***Turnitin Blog https://www.turnitin.com/blog/how-to-uphold- academic-integrity-in-remote-learning

***Oficiul European pentru Drepturi de Autor (2022) https://www.eucopyright.com/ro

Optional references:

***TED x talk Emilia Șercan – Împotriva fabricii de doctorate
https://www.ted.com/talks/emilia_ercan_impotriva_fabricii_de_doctorate
***Positive Psychology Center https://ppc.sas.upenn.edu/people/martin-ep-seligman
*** *Ethics Unwrapped https://ethicsunwrapped.utexas.edu/video/role-morality*

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant employers in the corresponding field

The course has a similar content compared with other European universities courses and takes into account the level of training of students.

11. Assessment

Type of activity	11.1. Assessment criteria	11.2. Assessment methods	11.3. Percentage of the final grade
Lecture	Lecture attendance. Correct and comprehensive responses to periodic verification tests. The mandatory approach and proper treatment of all subjects on the	Written exam in the form of an essay on a topic relevant to the bibliography and the content taught.	100%

	examination sheet.		

10.6. Minimum performance standards

Knowledge 50% of the information contained in the course.
Attendance at 50% courses is a condition for entering the exam.
Acquiring the information provided at the lecture and practical sessions at a level that allows passing the designated forms of verification.

[1] Cycle of studies- choose of the three options: Bachelor/Master/Ph.D.

[2] Discipline status (content) - for the undergraduate level, choose one of the options: **FD** (fundamental discipline), **BD** (basic discipline), **CS** (specific disciplines-clinical sciences), **AP** (specific disciplines-animal production), **FH** (specific disciplines-food hygiene), **UO** (disciplines based on the university's options).

[3] Discipline status (compulsoriness) - choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).

[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

	Course coordinator	Laboratory work/seminar coordinator
Filled in on	Prof. Dr. Alina S. Rusu	Prof. Dr. Alina S. Rusu .....

Approved by the Department on
.....

Head of the Department
Conf. Dr. Radu Constantinescu
.....

Approved by the Faculty Council on
.....

Dean
Prof. Daniel S. Dezmirean, PhD
.....

UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
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Tel: 0264-596.384, Fax: 0264-593.792
www.usamvcluj.ro

Nr._____by _____ **Form code USAMV 0312010104**

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher Education Institution	University of Agricultural Science and Veterinary Medicine by Cluj-Napoca
1.2. Faculty	Animal Sciences and Biotechnology
1.3. Departament	Fundamental Sciences
1.4.Domain of study	Animal Science
1.5.Level of study[1)]	Master
1.6.Specialization/ Program of study	Animal Science
1.7. Form of teaching	Full time

2. Information on the discipline

2.1. Name of the course	Animal Behaviour and Animal Welfare 2							
2.2. Course coordinator				Assistant Professor Ph.D. CRISTINA HEGEDUS				
2.3. Seminar/laboratory/project coordinator				Assistant Professor Ph.D. CRISTINA HEGEDUS				
2.4. Year of study	I	2.5. Semester	II	2.6. Type of Evaluation	continous	2.7. Course regime	Content[2]	DCA
							Compulsoriness[3]	CoD

3. Total estimated time (teaching hours per semester)

3.1. Hours per week– full time programme	3	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	1
3.4.Total number hours in the curriculum	28	out of which: 3.5.lecture	14	3.6.seminar/laboratory	14
Distribution of time allotted					hours
3.4.1.Study based on hand book, notes, bibliography					25
3.4.2. Extra documentation in the library, on specific electronic platforms and on field					10
3.4.3. Prepare the seminars / laboratories / projects, theme, essays,reports, portofolio					15
3.4.4.Tutorial					10
3.4.5.Examination					2
3.4.6. Other activities					-
3.7. Total hours of individual study	62				
3.8. Total hours on semester	100				
3.9. Number of ECTS [4]	4				

4. Prerequisites (is applicable)

4.1. curriculum related	Animal Behaviour and Animal Welfare 1, Animal cognition and Consciousness
4.2. skill related	Corroboration of previously accumulated knowledge, for easier understanding of the specific aspects related to animal welfare observed from the perspective of the animals' externalized behavior

5. Conditions (if applicable)

5.1for the lecture	The course is fully covered by books in the field. The presentation of the course is carried out in an attractive manner with suggestive images to exemplify certain points provided in the program but also to capture attention. Presentation form pptx . Assist professor.Ph .D CRISTINA HEGEDŰS Logistical support: video projector, interactive whiteboard and PowerPoint presentations.

	Participation in at least 50% of the courses is a condition for taking the exam
5.2. for the laboratory	Lab Notes: Practical work is covered with practical work guide, oral presentation and examples Place of laboratory: Hygiene laboratory; Location Pavilion VII, Room no. 129, equipped with laboratory equipment and devices, reagents and laboratory consumables specific to the fields of expertise: determination of physico-chemical, biological and bacteriological parameters of air, water; microscope, laptop, video projector and software - Power Point, Word. Participation in 100% of laboratory/seminar work is a condition for participation in the exam

6. Specific competence aquired

Proffesional competences	1) The learning outcomes allow the formation of practical skills and abilities in accordance with the dynamics of research in the field of animal growth, welfare and behavior
Transversal competences	1) The use of theoretical aspects learned in solving practical problemes related with animal welfare and behaviour 2) Ability to work in a team 3) Use a specialiseed terminology in various context 4) Complience with the pprinciples of professional ethics

7. Learning outcomes

7.1 Knowledge	The student/graduate demonstrates a solid understanding of animal behaviour and welfare concepts, including behavioural patterns and social structures in various species such as social insects, wild and exotic animals, and non-conventional domestic species. They are familiar with methods of behavioural assessment and the principles underlying species-appropriate welfare practices, including hobby farming contexts.
7.2 Skills	The student/graduate applies tools for observing and measuring animal behaviour, interprets species-specific responses in diverse environments, and develops tailored welfare strategies. They are capable of adapting their approach to behavioural needs across a range of species, from social insects to wild species and animals kept in small-scale or non-commercial farming systems.
7.3 Responsibility and autonomy	The student/graduate assumes ethical responsibility in evaluating and promoting animal welfare, demonstrating critical thinking in applying behaviour-based assessments. They contribute independently to the implementation of welfare measures across traditional, exotic, and hobby-based animal care settings, promoting respectful and informed human-animal interactions.

8. Course objectives (base on the list of competences aquired)

8.1. Overal course objective	It is advanced knowledge discipline that involves acquiring notions and acquiring practical skills in assessing the degree of well-being through the displayed behaviors and reading the body language of animals.
8.2.Specific objective	Identification of stressors in the life of animals and possibilities to minimize the disturbing factors on the homeostasis of the animal body

9. Content

9.1. LECTURE	Methods of teaching	Observations

Number of hours – 14		
The place of animal in human society Animal welfare and protection: general principles, ethical, moral, legislative motivation : Why we need to protect animals ?	Lecture presentation ppt	2 lecture-2 hours
Stress and stressors. General considerations Stress versus animal welfare and behavior	Lecture presentation ppt	1 lecture-1hour
Animal welfare, health and environment. Shelter and keys to identify welfare and behavior in farm animals.	Lecture presentation ppt	2 lecture-2 hours
Introduction in body language for dog and cat	Lecture presentation ppt	1 lecture-1hour
Welfare assessment protocol for shelter dog	Lecture presentation ppt	2 lecture-2 hours
Feline Spectrum Assessment	Lecture presentation ppt	2 lecture-2 hour
The welfare and behavior of laboratory animals in relation to the environment	Lecture presentation ppt	2 lecture-1 hours
The relationship between fish, physical-chemical parameters of water and behavior.	Lecture presentation ppt	2 lecture-2 hours

9.2.PRACTICAL WORK Number of hours –14		
Identification of the main microclimate parameters necessary for analyzing animal welfare protocols		
Determination and recording of temperature and humidity. Determination of thermal stress in animals	Lecture Presentation the apparatus and devices Practical demonstration	2 practical work – 2 hours
Determination of wind speed and air flow, lightning Chemical examination of air: CO_2, NH_3 and H_2S	Lecture Presentation the apparatus and devices Practical demonstration	2 practical work – 2 hours
Water and the fish. Evaluation of main water parameters for fish	Lecture Determination of water quality with spectro -photometer and colorimeter devices	2 practical work – 2 hours
Assessment and calculation of area and air volume necessary inside on the shelters depending on species and age categories. Assessment of lighting shelters	Lecture Presenting the calculation	2 practical work –2 hours

	procedures	
Calculation of air volume in natural ventilation after CO_2, humidity	Lecture Presenting the calculation procedures	2 practical work – 2 hours
The calculation of the area of air inlet and chimney for removal de noxious gas Artificial ventilation shelters. Volume calculation of air necessary depending on the type and presentation of types of fans.	Lecture Presenting the calculation procedures	2 practical work –2 hours
Assessment of housing condition. General principal and example	Lecture Practical demonstration	2 practical work- 2 hours

Compulsoru bibliography:

1. Broom Donald M.and Andrew F. Fraser (2015).Domestic animal behaviour and welfare 5th ed. CAB International, ISBN 978-1-78067-563-6
2. Cristina El Mahdy (2018)The diamond of well-being, the ABC of hygiene and comfort in cattle. ed. Napoca Star, Cluj Napoca,ISBN 978-606-690-740-8,CIP 636.09, pg.482
3. Cristina I., El Mahdy (2020) Importance of Fresh Water for Livestock. In: Goldstein, M.I., DellaSala, D.A. (Eds.), Encyclopedia of the World's Biomes, vol. 4. Elsevier, pp. 29–34, ISBN: 9780128160961
4. Edward N. Eadie (2011) Education For Animal Welfare. Ed Springer. ISSN 1572-7408, ISBN 978-3-642-16813-0, DOI 10.1007/978-3-642-16814-7
5. James K. Kirkwood, Robert C. Hubrecht and Elizabeth A. Roberts (2003)- Environmental enrichment for captive animals Ed. Blackwell Science Ltd, a Blackwell Publishing Company, ISBN 0-632-06407-2
6. Kai Horsthemke (2018)- Animal Rights Education. ISBN 978-3-319-98593-0 (eBook), https://doi.org/10.1007/978-3-319-98593-0
7. Moberg G.P. and J.A. Mench (2000). The Biology Of Animal Stress. Basic Principles And Implications For Animal Welfare. Ed. CAB International, ISBN 0-85199-359-1
8. Nielse Birte (2020) Asking Animals An Introduction to Animal Behaviour Testing. Ed. CABI, ISBN 9781789240627
9. Simona Paşcalău, Cristina El Mahdy (2017)- Growth of hens for consumption eggs, ed. Napoca Star Cluj Napoca,ISBN 978-606-690-593-0, pg.129
10. Thomas Banhazi, Andres Aland, Jörg Hartung (2018)- Air quality and livestock farming . CRC Press/Balkema. ISBN: 978-1-138-02703-9 (Hbk), ISBN: 978-1-315-73833-8 (eBook)
11. Tomecek, Stephen M. (2009). Animal Behavior: Animal Communication. ISBN 978-1-60413-091-1
12. Yeates James (2019) Companion animal care and welfare: the UFAW companion animal handbook. ED. Wiley-Blackwell, ISBN 9781118688793

Facultative bibliography:

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant stakeholders in the corresponding field

The course has a similar content compared with other European universities courses and takes into account the level of preparation of students.
The course is important / fundamental for the development of working skills as future specialists in the graduated

11. **Assessment**

Type of activity	11.1. Assessment criteria	11.2. Assessment methods	11.3. Percentage of the final grade
11.1. Lecture	Basic principles in the recognition and appreciation of full, poor and very poor animal welfare indices	Oral exam	50%
11.2. Laboratory	Identifying animal welfare according to behavior	Practical exam	30%
	Preparation of a report specific to the discipline according to the proposed topics	Oral presentation of the project	20%
11.3.Minimum performance standars Knowledge 50% of the information contained in the course.			

Knowledge 50% of the information provided at practical work / seminar. 100% attendance at practical work / seminars is mandatory. Attendance at 50% courses is a condition for entering the exam.

[1] Education levels- choose of the three options: Bachelor/Master/Ph.D.

[2] Discipline status (content)- for the undergraduate level, choose one of the options: **FD** (fundamental discipline), **DD** (domain discipline), **SD** (specialty discipline), **CD** (complementary discipline).

Discipline status (content)- for the master level, choose one of the options: **DA** (in-depth discipline), **DCA** (advanced knowledge discipline), **DPC** (complementary preparation discipline), **DS** (synthesis discipline – options depending on the domain).

[3] Discipline status (compulsoriness)- choose one of the options: **CoD** (compulsory discipline), **OD** (optional discipline), **ED** (elective discipline).

[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

Filled in on
23.09.2025

Course coordinator
Assist professor.Ph .D CRISTINA HEGEDŰS

Laboratory work/seminar coordinator
Assist professor.Ph .D CRISTINA HEGEDŰS

Subject coordinator
Assist professor.Ph .D CRISTINA HEGEDŰS

Approved by the Department on
24.09.2025

Head of the Department
Assist professor.Ph.D. RADU CONSTANTINESCU

Approved by the Faculty Council on
24.09.2025

Dean
Professor Ph.D DEZMIREAN S.DANIEL

UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
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USAMV form 0312010105

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Na
1.2. Faculty	Animal Science and Biotechnologies
1.3. Department	Fundamental sciences
1.4. Field of study	Animal Science
1.5.Education level	Master
1.6.Specialization/ Study programme	Ethology and human-animal interaction
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	**Animals in Society and Humane Education**							
2.2. Course coordinator				**Prof. Dr. Alina Simona Rusu**				
2.3. Seminar/ laboratory/ project coordinator				**Prof. Dr. Alina Simona Rusu**				
2.4. Year of study	I	2.5. Semester	II	2.6. Type of evaluation	E	2.7. Discipline status	Content[2]	FD
							Compulsoriness[3]	OD

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	3	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	2
3.4.Total number of hours in the curriculum	42	Out of which: 3.5.lecture	14	3.6.seminar/laboratory	28
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes					38
3.4.2. Additional documentation in the library, specialized electronic platforms and field					30
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					35
3.4.4.Tutorials					10
3.4.5.Examinations					2
3.4.6. Other activities					18
3.7. Total hours of individual study	121				
3.8. Total hours per semester	175				
3.9. Number of credits[4]	**7**				

4. Prerequisites (if applicable)

4.1. curriculum-related	Human Ethology
4.2. skills-related	Fundamental Skils for Anthrozoology

5. Conditions (if applicable)

5.1. for the lecture	The course is interactive; students can ask questions regarding the content of lecture. Logistic support: video projector, interactive whiteboard and PowerPoint presentations. Participation in a minimum of 50% of courses is a condition for participation

	in the exam.
5.2. for the seminar/ laboratory/ project	Laboratory/seminar notes Place of laboratory: laboratory room / place of private partner sector Laboratory equipment: questionnaires and GoPro gear

6. Specific competences acquired

Professional competences	• The formation of theoretical and practical skills will facilitate the ability to access scientific sources documenting the models and variables used in the literature and knowledge of ethical principles in research, including in the development of scientific papers. • Abilities to present in an applicative manner several topics associated with the discipline.
Transversal competences	Development of information and documentation skills, group activity and use of computer tools for searching and processing analytical data. Competences in reflecting on various problems, topics or methodologies, and on exercising cognitive flexibility.

7. Learning outcomes

7.1 Knowledge	The student/graduate understands the principles and benefits of human-animal interactions (HAIs), as well as the importance of self-care strategies to maintain well-being and professional effectiveness in animal-related fields.
7.2 Skills	The student/graduate applies techniques for planning and conducting animal-assisted interventions ethically and safely, while recognizing signs of stress in both animals and humans. They also implement self-care practices to sustain psychological and mental health in their professional roles and during civic engagement activities.
7.3 Responsibility and autonomy	The student/graduate assumes responsibility for the wellbeing of animals and humans during various HAIs and actively maintains their own well-being through effective self-care, promoting resilience and long-term professional success.

8. Course objectives (based on the list of competences acquired)

8.1. Overall course objective	• Providing theoretical and procedural knowledge to study human-animal interactions in societal, historical and evolutionary contexts, as well as the development of responsibility towards humans, animals and the environment. • Familiarization with basic concepts and working methods in the field of education based on compassion (humane eduation). • Applying the knowledge acquired in professional, personal and operational development in society.
8.2. Specific objectives	• Identifying the roles of animals in society, focusing on cross-cultural and trans-generational similarities and differences. • Providing critical thinking, reflection and interpretation skills regarding currents and positions towards animals. • Ability to plan, implement and evaluate compassion-based education programs in general and Service-Learning programs in particular.

9. Content

9.1.LECTURES **Number of hours – 14**	Teaching methods	Notes 1 lecture = 1 hours
ANIMALS AS A SOCIAL CONSTRUCTION Sociological perspective on animals; human-animal co-existence; otherness; anthropocentrism;	Lecture	2 lectures
THE ROLE OF ANIMALS IN SOCIETY		2 lectures
TRANSCULTURAL AND UNIVERSAL PERCEPTIONS OF ANIMALS		One lecture
CURRENT TRENDS AND POSITIONS TOWARD ANIMALS		One lecture
COMPASSION / HUMAN EDUCATION		2 lectures
THEORIES OF LEARNING IN COMPASSION-BASED EDUCATION		One lecture
MODELS FOR DEVELOPING HUMAN EDUCATION AND SERVICE-LEARNING TYPES		One lecture
THE CONNECTION BETWEEN ANIMAL ABUSE AND HUMAN VIOLENCE		2 lectures
RISK FACTORS AND PROTECTIVE IN ANIMAL ABUSE		One lecture

9.2. PRACTICAL WORK **Number of hours – 28**	Theoretical presentation of practical works	1 lab work (2 hours / work)
• Methods for mapping community needs - practical exercises.		1 lab
• Procedures for evaluating Humane Education and Service Learning programs - the analysis by each student of two programs from databases indicated by the subject holder.		1 lab
• Elaboration of a Service-Learning program sketch from the perspective of the human-animal-environment triangle.		1 lab
• Examples of Service-Learning programs		1 lab
• Interdisciplinary curricular development in the direction of civic involvement of students first interactions with animals - examples of learning objectives.		1 lab
• Values and missions of NGOs active in the fields of animal protection and rights		1 lab
• Viewing and reflective analysis of the lecture "How to tame a fox and build a dog" (Lee Alan Dugatkin) in the context of understanding anthropogenic selection and domestication.		1 lab
• Animals in art, movies, stories - watching sequences from movies that illustrate individuals of the animal species that have had an impact on humanity.		1 lab
• Critical analysis of animal stories for children from the perspective of compassion-based education criteria		1 lab
• Guidelines for reporting animal abuse		

		1 lab

Compulsory bibliography:

Lecture notes
De Mello, M. (2012). Animals and Society. An Introduction to human-animal studies. Columbia University Press.
Herzog, H. (2010). Some we love, some we hate, some we ate: Why it's so hard to think straight about animals. Harpe Collins.
Komorosky, D., & O'Neal, K.K. (2015). The development of empathy and prosocial behavior through humane education, restorative justice, and programs. *Contemporary Justice Review*, *18*, 395–406.
Rusu, A.S. (2020). Service-Learning in Higher Education Institutions – Fostering Human-Animal Interactions through Service-Learning – Babeş-Bolyai University. In *Humane Education in Higher Education. Advancing Inclusive Social Justice Studies in a Postsecondary Environment* (Ed. Stephanie Itle-Clark). WYC Humane Press, US, ISBN 978-1-946044-86-0, pages 242-252.
National Link Coalition. (n.d.). Intergenerational cycle of violence. http://nationallinkcoalition.org/faqs/what-is-the-link
Educational Platform Roots & Shoots Jane Goodall Institute https://www.rootsandshoots.org/
Serpell, J. A., & Paul, E. S. (2011). Pets in the family: An evolutionary perspective. In C. A. Salmon and T. K. Shackelford (Eds.) *The Oxford handbook of evolutionary family psychology* (pp. 298-309). New York: Oxford University Press.

Optional bibliography:

Rusu, A.S. (2019). Interdisciplinary Learning Objective for Service-Learning Curricula: Neurobiological and Evolutionary Explanations of Helping Others. *Proceedings of EDULEARN19 Conference*, 1st-3rd July 2019, Palma, Mallorca, Spain. 2100-2106. doi: 10.21125/edulearn.2019.0571
Rusu, A.S. (2019). Educational practices for civic engaged students: Service-Learning - from general to applied values in animal-oriented professions. *Journal of Educational Sciences & Psychology*, IX (LXXI), 29-35.
Research and Writing in Humane Education HSUS Animal Studies Repository:
http://animalstudiesrepository.org/do/discipline_browser/articles?discipline_key=784
Ascione, F.R. (2005). *Children and Animals: Exploring the roots of kindness and cruelty*. West Lafayette, IN: Purdue University Press.

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant stakeholders in the corresponding field

The course has a similar content compared with other European universities courses and takes into account the level of preparation of students.

11. Assessment

Type of activity	11.1. Assessment criteria	11.2. Assessment methods	11.3. Percentage of the final grade
11.4. Lecture	Use of discipline-specific language and evidence-based bibliographic references.	Test Oral	70%
11.5. Seminar/Laboratory	Evaluation of two compassion-based education programs (among those existing in the databases indicated by the teacher) and presentation of a Service-Learning program plan.	Presentation of the project in a template indicated by the teacher.	30%
11.6. Minimum performance standards			
Knowledge 50% of the information contained in the course. Knowledge 50% of the information provided at practical work / seminar. 100% attendance at practical work / seminars is mandatory. Attendance at 50% courses is a condition for entering the exam. Learning scientific information and specialized language from the course and practical work at a medium level. Obtaining the final average for passing the checks on the way is a condition of passability.			

[1] Education levels- choose of the three options: Bachelor/ * Master/Ph.D.

[2] Discipline status (content)- for the undergraduate level, choose one of the options:- **FD** (fundamental discipline), **BD** (basic discipline), **CS** (specific disciplines-clinical sciences), **AP** (specific disciplines-animal production), **FH** (specific disciplines-food hygiene), **UO** (disciplines based on the university's options).

[3/] Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).

[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

[5 / *] Disciplines: AK- Advanced knowledge, CT- Complementary Training, S- Synthesis

Filled in on

Course coordinator
Prof. Dr. Alina Simona Rusu

Laboratory work/seminar coordinator
Prof. Dr. Alina Simona Rusu

Approved by the Department on
.....

Head of the Department
Assoc. prof. Dr. Constantinescu Radu

Approved by the Faculty Council on
.....

Dean
Prof. Dr. Dezmirean Daniel Severus

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No._____of _____ **USAMV form 0312010106**

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Animal Science and Biotechnologies
1.3. Department	Fundamental sciences
1.4. Field of study	Animal Science
1.5.Education level	Master
1.6.Specialization/ Study Program	Ethology and Human Animal Interaction
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	Elements of Applied Ethology 1
2.2. Course coordinator	Associate Professor Constantinescu Radu PhD
2.3. Seminar/ laboratory/ project coordinator	Associate Professor Constantinescu Radu PhD

3.1. Hours per week – full-time program	3	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	2
3.4.Total number of hours in the curriculum	42	Out of which: 3.5.lecture	14	3.6.seminar/laboratory	28
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography, and notes					30
3.4.2. Additional documentation in the library, specialized electronic platforms, and field					30
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios, and essays					20
3.4.4.Tutorials					10
3.4.5.Examinations					8
3.4.6. Other activities					10
3.7. Total hours of individual study	108				
3.8. Total hours per semester	150				
3.9. Number of credits[4]	6				

2.4. Year of study	**1**	2.5. Semester	**2**	2.6. Type of evaluation	Summative	2.7. Discipline status	Content[2]	FD
							Compulsoriness [3]	CD

3. Total estimated time (teaching hours per semester)

4. Prerequisites (is applicable)

4.1. curriculum-related	General Biology, Anatomy
4.2. skills-related	Microsoft Office, Microsoft Excel

5. Conditions (if applicable)

5.1. for the lecture	Interactive course; Q&A session at the end of lectures and/or chapter. Academic discipline requires compliance with the start and end of the course.
5.2. for the seminar/ laboratory/ project	During practical works, each student will develop an individual activity with laboratory materials (made available in the book that describes the laboratory work). Academic discipline is imposed throughout the course of practical works.

6. Specific competencies acquired

Professional competences	Students will develop skills in analysing animal behaviour.
Transversal competences	Development of information and documentation skills, group activity and use of computer tools for searching and processing analytical data. Competences in reflecting on various problems, topics, or methodologies, and on exercising cognitive flexibility.

7. Learning outcomes

7.1 Knowledge	The student/graduate understands the social, psychological, and ethical dimensions of human-animal relationships, including the role of animals in society, applied ethology (human and animal), and patterns of abnormal human-animal interaction. They are familiar with behavioural dynamics that support or compromise animal welfare and interspecies well-being.
7.2 Skills	The student/graduate identifies and interprets behavioural indicators of both healthy and dysfunctional human-animal interactions. They apply ethological and psychological frameworks to assess relational contexts, address problematic behaviours, and implement approaches that promote empathy, respect, and welfare in human-animal relationships.
7.3 Responsibility and autonomy	The student/graduate assumes responsibility in recognising and responding to inappropriate or harmful human-animal interactions. They contribute to fostering ethical standards in anthrozoological practices, promoting responsible interspecies relationships in educational, therapeutic and community settings.

8. Course objectives (based on the list of competencies acquired)

8.1. Overall course objective	• Knowledge and expertise in the field of ethology • Familiarization with scientific vocabulary
8.2. Specific objectives	• Performing ethograms • Interpretation of field data • Behavior analysis • Properly using laboratory equipment

9. Content

9.1.LECTURE **Number of hours 42**	Teaching methods	1 lecture = 1 hours
History and Role of Ethology		1 lecture
Data sampling and analysis		2 lecture
Behavior and evolution	lecture, heuristic conversation, explanation	1 lecture
Animal transportation (farmed and wild animals)		1 lecture
Group behaviour		1 lecture
Parenting and Alloparenting (fish, avian, mammals)		1 lecture
Behavioural time budgets: time management		2 lecture
Behaviour diversity		1 lecture
Observer bias in animal behaviour		1 lecture
Animal Societies (from wolf to dog)		1 lecture
Foraging and Antipredator Behavior		1 lecture
General review		1 lecture

9.2. PRACTICAL WORK **Number of hours 42** Introduction to Ethology Data analysis Behaviour and evolution Animal transportation Group behaviour Parenting and Alloparenting Behavioural time budgets Behaviour diversity Observer bias in animal behaviour Animal Societies Foraging and Antipredator Behavior General review	Theoretical presentation of practical works	(2 hours/lab work) 1 lecture 2 lecture 1 lecture 1 lecture 1 lecture 1 lecture 2 lecture 1 lecture 1 lecture 1 lecture 1 lecture 1 lecture
Compulsory bibliography: course materials, The Foundations of Ethology, Konrad Z. Lorenz, https://doi.org/10.1007/978-3-7091-3671-3. Ethology: The Mechanisms and Evolution of Behavior, James L. Gould, 1982		
Optional bibliography: The ethogram and animal behavior research, 2002, Janet Crews		

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations, and of the relevant stakeholders in the corresponding field

A strong collaboration with NGOs involved in animal protection.

11. Assessment

Type of Activity	10.1. Assessment criteria	10.2. Assessment methods	10.3. Percentage of the final grade
10.4. Lecture	Level of knowledge	Evaluation	50%
10.5. Seminar/Laboratory	Quality of presentation	Practical exam	50%
10.6. Minimum performance standards 5 (five)			
Learning scientific information and specialized language from the course and practical work at a medium level. Obtaining the final average for passing the checks on the way is a condition of passability.			

[1] Education levels- choose one of the three options: Bachelor/ * Master/Ph.D.

[2] Discipline status (content) - for the master's level one of the options is chosen - DA (deepening discipline), DCA (advanced knowledge discipline), DPC (complementary training discipline), DS (synthesis discipline - options depending on the field).

[3/] Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).

[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

[5 / *] Disciplines: AK- Advanced knowledge, CT- Complementary Training, S- Synthesis

Filled in on
23.09.2025

Course coordinator
Assoc. Prof. Constantinescu Radu PhD

Laboratory work/seminar coordinator
Assoc. Prof. Constantinescu Radu PhD

Subject coordinator
Assoc. Prof. Constantinescu Radu PhD

Approved by the
Department on
24.09.2025

Head of the Department
Assoc. Prof. Constantinescu Radu PhD

Approved by the
FacultyCouncil on
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Dean

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UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
Calea Mănăştur 3-5, 400372, Cluj-Napoca
Tel: 0264-596.384, Fax: 0264-593.792
www.usamvcluj.ro

No._____of _____ **USAMV form 0312010209**

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Animal Science and Biotechnologies
1.3. Department	Fundamental sciences
1.4. Field of study	Animal Science
1.5.Education level	Master
1.6.Specialization/ Study Program	Ethology and Human Animal Interaction
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	Particularities of animal anatomy and physiology
2.2. Course coordinator	Associate Professor Constantinescu Radu PhD
2.3. Seminar/ laboratory/ project coordinator	

3.1. Hours per week – full-time program	2	out of which: 3.2. lecture	2	3.3. seminar/ laboratory/ project	0
3.4.Total number of hours in the curriculum	28	Out of which: 3.5.lecture	28	3.6.seminar/laboratory	0
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography, and notes					25
3.4.2. Additional documentation in the library, specialized electronic platforms, and field					22
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios, and essays					20
3.4.4.Tutorials					10
3.4.5.Examinations					10
3.4.6. Other activities					10
3.7. Total hours of individual study	97				
3.8. Total hours per semester	125				
3.9. Number of credits[4]	5				

2.4. Year of study	**1**	2.5. Semester	**1**	2.6. Type of evaluation	Summative	2.7. Discipline status	Content[2]	FD
							Compulsoriness [3]	CD

3. Total estimated time (teaching hours per semester)

4. Prerequisites (is applicable)

4.1. curriculum-related	Biology
4.2. skills-related	Microsoft Office, Microsoft Excel

5. Conditions (if applicable)

5.1. for the lecture	Interactive course; Q&A session at the end of lectures and/or chapter. Academic discipline requires compliance with the start and end of the course.
5.2. for the seminar/ laboratory/ project	

6. Specific competencies acquired

Professional competences	Learning outcomes that enable the formation of skills and practical skills in accordance with the dynamics of the field of animal science. The development, implementation and coordination of technological processes specific to animal behavior.
Transversal competences	Development of information and documentation skills, group activity and use of computer tools for searching and processing analytical data. Competences in reflecting on various problems, topics, or methodologies, and on exercising cognitive flexibility.

7. Learning outcomes

7.1 Knowledge	The student/graduate understands the social, psychological, and ethical dimensions of human-animal relationships, including the role of animals in society, applied ethology (human and animal), and patterns of abnormal human-animal interaction. They are familiar with behavioural dynamics that support or compromise animal welfare and interspecies well-being.
7.2 Skills	The student/graduate identifies and interprets behavioural indicators of both healthy and dysfunctional human-animal interactions. They apply ethological and psychological frameworks to assess relational contexts, address problematic behaviours, and implement approaches that promote empathy, respect, and welfare in human-animal relationships.
7.3 Responsibility and autonomy	The student/graduate assumes responsibility in recognising and responding to inappropriate or harmful human-animal interactions. They contribute to fostering ethical standards in anthrozoological practices, promoting responsible interspecies relationships in educational, therapeutic and community settings.

8. Course objectives (based on the list of competencies acquired)

8.1. Overall course objective	• Provide knowledge in the field of animal anatomy and physiology. • Familiarization with scientific vocabulary in terms of general anatomy and physiology. • Comparative Animal Anatomy and Physiology provides knowledge regarding the understanding of general anatomy, living phenomena, the mechanisms that control the coordination of the functions of different organs, their integration into a unitary functional system and the integration of the organism in its living environment.
8.2. Specific objectives	• Acquiring knowledge related to animal anatomy and physiology • Understanding living phenomena, the mechanisms that control the coordination of the functions of different organs. • Understanding the unitary functional system of the organism in its living environment. • Understanding the role of organs, tissues and cell in the animal body • Properly using laboratory equipment

9. Content

9.1.LECTURE **Number of hours 42** Introduction to Anatomy Introduction to Physiology General histology Metabolism: anabolism and catabolism Locomotion (physiology and mechanics) The digestive system The circulatory system: blood, lymph, heart, blood vessels The respiration: pulmonary volumes and gas exchange The nervous system Excretion Exocrine glands Endocrine glands and hormones Physiology of analysers Vitamins: role and functions	Teaching methods lecture, heuristic conversation, explanation	1 lecture = 2 hours 1 lecture 1 lecture 1 lecture 1 lecture 1 lecture 1 lecture 1 lecture 1 lecture 1 lecture 1 lecture 1 lecture 1 lecture 1 lecture 1 lecture

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations, and of the relevant stakeholders in the corresponding field

A strong collaboration with NGOs involved in animal protection.

11. Assessment

Type of Activity	10.1. Assessment criteria	10.2. Assessment methods	10.3. Percentage of the final grade
11.4. Lecture	Level of knowledge	Evaluation	50%
11.5. Seminar/Laboratory	Quality of presentation	Practical exam	50%
11.6. Minimum performance standards 5 (five)			
Learning scientific information and specialized language from the course and practical work at a medium level. Obtaining the final average for passing the checks on the way is a condition of passability.			

[1] Education levels- choose one of the three options: Bachelor/ * Master/Ph.D.

[2] Discipline status (content) - for the master's level one of the options is chosen - DA (deepening discipline), DCA (advanced knowledge discipline), DPC (complementary training discipline), DS (synthesis discipline - options depending on the field).

[3/] Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).

[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

[5 / *] Disciplines: AK- Advanced knowledge, CT- Complementary Training, S- Synthesis

Filled in on
23.09.2025

Course coordinator
Associate Professor Constantinescu Radu PhD

Subject coordinator
Associate Professor Constantinescu Radu PhD

Approved by the
Department on
24.09.2025

Head of the Department
Assoc. Prof. Constantinescu Radu PhD

Approved by the

Faculty Council on
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Dean

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UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
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Tel: 0264-596.384, Fax: 0264-593.792
www.usamvcluj.ro

USAMV form 0312010210

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Na
1.2. Faculty	Animal Science and Biotechnology
1.3. Department	Fundamental sciences
1.4. Field of study	Animal Science
1.5.Education level	Master
1.6.Specialization/ Study programme	**Ethology and human-animal interactions**
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	**Human Ethology**							
2.2. Course coordinator				**Professor Dr. Alina Simona Rusu**				
2.3. Seminar/ laboratory/ project coordinator				Prof. Dr. Alina S. Rusu				
2.4. Year of study	I	2.5. Semester	I	2.6. Type of evaluation	sumative	2.7. Discipline status	Content[2]	FD
							Compulsoriness[3]	CD

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	2	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	1
3.4.Total number of hours in the curriculum	28	Out of which: 3.5.lecture	14	3.6.seminar/laboratory	14

Distribution of the time allotted	hours
3.4.1. Study based on book, textbook, bibliography and notes	30
3.4.2. Additional documentation in the library, specialized electronic platforms and field	20
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays	35
3.4.4.Tutorials	10
3.4.5.Examinations	2
3.4.6. Other activities	

3.7. Total hours of individual study	97
3.8. Total hours per semester	125
3.9. Number of credits[4]	**5**

4. Prerequisite (if applicable)

5. Conditions (if applicable)

5.1. for the lecture	The course is interactive, students can ask questions regarding the content of lecture. Academic discipline requires compliance with the start and end of the course. We do not allow any other activities during the lecture, mobile phones will be turned off.
5.2. for the seminar/ laboratory/ project	During practical works, each student will develop an individual activity with laboratory materials (made available in the book that describes the laboratory work). Academic discipline is imposed throughout the course of practical works.

6. Specific competences acquired

Professional competences	Understanding evidence-based scientific research methods in the field of human ethology. Ability to access scientific resources in terms of models and variables used in the literature and knowledge of ethical principles in research, including the development of scientific papers. Abilities to present in an applicative manner topics associated with the subject.
Transversal competences	Development of information and documentation skills, group activity and use of computer tools for searching and processing analytical data. Competences in reflecting on various problems, topics or methodologies, and on exercising cognitive flexibility.

7. Learning outcomes

7.1 Knowledge	The student/graduate understands the social, psychological, and ethical dimensions of human-animal relationships, including the role of animals in society, applied ethology (human and animal), and patterns of abnormal human-animal interaction.
7.2 Skills	The student/graduate understands the social, psychological, and ethical dimensions of human-animal relationships, including the role of animals in society, applied ethology (human and animal), and patterns of abnormal human-animal interaction.
7.3 Responsibility and autonomy	The student/graduate acts ethically and thoughtfully in recognizing and defining human cognition and emotional states, contributing to informed decision-making in research and practice.

8. Content

8.1.LECTURES **Number of hours –**	Teaching methods	Notes 1 lecture = 1 hour
HUMAN ETHOLOGY: HISTORICAL REFERENCES AND INTERDISCIPLINARY APPROACHES	lecture, heuristic conversation, explanation	2 lectures
UNDERSTANDING HUMAN EMOTIONS AND AFFECTIONS		2 lectures
ATTACHMENT IN INTERPERSONAL RELATIONS		One lecture
HUMAN AGGRESSION AND AGGRESSIVENESS		One lecture
VERBAL AND NON-VERBAL COMMUNICATION IN THE HUMAN SPECIES		2 lectures
ETHOLOGICAL PARTICULARS OF HUMAN ONTOGENETIC DEVELOPMENT		One lecture
HUMAN CULTURAL ETHOLOGY		One lecture
HUMAN SOCIAL BEHAVIOR		2 lectures
THE CONCEPT OF FITNESS APPLIED IN HUMAN ETHOLOGY		

DEVIATING HUMAN BEHAVIOR		One lecture One lecture

8.2. PRACTICAL WORK **Number of hours –**	Theoretical presentation of practical works	1 lab work (2 hours / work)
Introduction to types of human behavioral data collection methods		1 lab
Methods of data collection in human ethology: The social experiment.		2 lab
Non-verbal behavior and the paradox of communication: presentation of the waiting room method, analysis of video materials and interpretation		3 lab
Presentation of the renewed pyramid of needs in the context of human functioning.		2 lab
Watching and discussing the TEDx talk with relevance for the subject		1 lab
Field observation of human laughter and smile - data collection by students in different social contexts		2 lab
Presentation and interactive analysis of the video "The evolution of goodness" (Prof. Dr. Lee Alan Dugatkin)		1 lab
Individual or group analysis of human behavior		2 lab

Compulsory bibliography:

Lecture notes
Laland, K.N., & Brown, G.R. (2002). Sense and Nonsense: Evolutionary Perspectives on Human Behavior. Oxford University Press.
Schmitt, A., Atzwanger, K., Grammer, K., & Schaefer, K. (2007). New aspects of human ethology. Springer Science & Business Media.
Kenrick, D. T., Griskevicius, V., Neuberg, S. L., & Schaller, M. (2010). Renovating the Pyramid of Needs: Contemporary Extensions Built Upon Ancient Foundations. *Perspectives on psychological science: a journal of the Association for Psychological Science*, *5*(3), 292–314.
Rusu, A.S. (2017). Chapter "Human Products" in Encyclopedia of Evolutionary Psychological Sciences. Eds. T.K. Shackelford, V.A. Weeked-Shackelford. Springer. ISBN: 978-3-319-16999-6.
Bronfenbrenner, U., & Morris, P. A. (2006). The bioecological model of human development. In W. Damon (Series Ed.) & R. M. Lerner (Vol. Ed.), Handbook of child psychology: Volume 1. Theoretical models of human development (6th ed., pp. 793–828). New York: Wiley

Optional bibliography:

SAGE resources on Human Behavior: https://edge.sagepub.com/hutchisoness2e2/student-resources
Rusu A.S. (2016). Evolutionary-Based Aspects of the Optimal Social Functioning in Prison. *Acta Psychopathologica*, 2:47. doi: 10.4172/2469-6676.100073.
Andelin, I.E., Rusu, A.S. (2016). An evolutionary analysis of seductive behavior of newly convicted females during primary psychological interview: Does suicidal attempt matter? *The European Proceedings of Social & Behavioral Sciences*, eISSN 2357-1330, 18:27-34.

9. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant stakeholders in the corresponding field

The course has a similar content compared with other European universities courses and takes into account the level of preparation of students.

10. Assessment

Type of activity	10.1. Assessment criteria	10.2. Assessment methods	10.3. Percentage of the final grade
10.4. Lecture	Use of discipline-specific language and evidence-based bibliographic references.	Test Oral	70%

10.5. Seminar/Laboratory	Individual development of a project based on observations of human behavior in different contexts, using discipline-specific methods.	Presentation of the project in a template indicated by the teacher.	30%
10.6. Minimum performance standards			
Knowledge 50% of the information contained in the course. Knowledge 50% of the information provided at practical work / seminar. 100% attendance at practical work / seminars is mandatory. Attendance at 50% courses is a condition for entering the exam. Learning scientific information and specialized language from the course and practical work at a medium level. Obtaining the final average for passing the checks on the way is a condition of passability.			

[1] Education levels- choose of the three options: Bachelor/ * Master/Ph.D.
[2] Discipline status (content)- for the undergraduate level, choose one of the options:- **FD** (fundamental discipline), **BD** (basic discipline), **CS** (specific disciplines-clinical sciences), **AP** (specific disciplines-animal production), **FH** (specific disciplines-food hygiene), **UO** (disciplines based on the university's options).
[3/] Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).
[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).
[5 / *] Disciplines: AK- Advanced knowledge, CT- Complementary Training, S- Synthesis

Filled in on

Course coordinator
Prof. Dr. Rusu Alina Simona

Laboratory work/seminar coordinator
Prof. Dr. Rusu Alina Simona

Approved by the Department on
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Head of the Department

Assoc. prof. Dr. Constantinescu Radu
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Approved by the Faculty Council on
.....

Dean
Prof. Dr. Dezmirean S. Daniel
.....

UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
Calea Mănăştur 3-5, 400372, Cluj-Napoca
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No._____of _____ **USAMV form 0312010211**

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Animal Sciences and Biotechnologies
1.3. Department	Technological sciences
1.4. Field of study	Animal Science
1.5.Education level	Master
1.6.Specialization/ Study programme	Ethology and human-animal interaction
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	**Fundamental Skills for Anthrozoology**							
2.2. Course coordinator				Associate Professor Jurco Eugen Claudiu				
2.3. Seminar/ laboratory/ project coordinator				Associate Professor Jurco Eugen Claudiu				
2.4. Year of study	I	2.5. Semester	I	2.6. Type of evaluation	E	2.7. Discipline status	Content[2]	DA
							Compulsoriness[3]	ED

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	2	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	1
3.4.Total number of hours in the curriculum	28	Out of which: 3.5.lecture	14	3.6.seminar/laboratory	14

Distribution of the time allotted	hours
3.4.1. Study based on book, textbook, bibliography and notes	30
3.4.2. Additional documentation in the library, specialized electronic platforms and field	25
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays	35
3.4.4.Tutorials	3
3.4.5.Examinations	3
3.4.6. Other activities	1

3.7. Total hours of individual study	97
3.8. Total hours per semester	125
3.9. Number of credits[4]	5

4. Prerequisites (is applicable)

4.1. curriculum-related	Not applicable
4.2. skills-related	The student is expected to possess knowledge of the general anatomy and physiology of animals.

5. Conditions (if applicable)

5.1. for the lecture	Lecture notes Course presentation in pptx format: course Holder Logistic support: video projector, interactive whiteboard and PowerPoint presentations. Participation in a minimum of 50% of courses is a condition for participation in the exam.
5.2. for the laboratory	Laboratory notes Place of laboratory: laboratory room 43/ resort SDE Cojocna/ place of private partner sector During practical works, each student will develop an individual activity with laboratory materials and animals. Participation in 100% laboratory work is a condition for the exam participation.

6. Specific competences acquired

6.1 Professional competences	Training of specialists in the field of animal science. Learning outcomes that ensure the development of knowledge, competences, and practical skills relevant to the dynamics of the field.
6.2 Transversal competences	Application of theoretical knowledge to solving practical problems. Development of the capacity to integrate and apply information acquired from other disciplines. Ability to work effectively as part of a team. Appropriate use of specialised terminology in diverse contexts. Adherence to the principles of professional ethics.

7. Learning outcomes

7.1 Knowledge	The student/graduate demonstrates an understanding of the social, psychological, and ethical dimensions of human–animal relationships, including the role of animals in society. They are familiar with behavioural dynamics that support or compromise animal welfare and interspecies well-being.
7.2 Skills	The student/graduate applies training methods that foster positive human–animal interactions, identifies and manages animal behaviours, and ensures safety and adherence to ethical standards across diverse practical settings.
7.3 Responsibility and autonomy	The student/graduate assumes responsibility in recognising and responding to inappropriate or harmful human-animal interactions. They contribute to fostering ethical standards in anthrozoological practices, promoting responsible interspecies relationships in educational and community settings.

8. Course objectives (based on the list of competences acquired)

8.1. Overall course objective	An in-depth discipline of advanced knowledge that supports the development of understanding regarding the importance of animals in human life and provides fundamental knowledge in the field of animal handling and restraint. Together with the other disciplines in the curriculum, it ensures the acquisition and formation of complex concepts related to human–animal interactions.
8.2. Specific objectives	Obtaining learning outcomes that aim in the formation of skills and abilities based on the correlation of the information received with those acquired in other disciplines such as Animal behaviour and animal welfare, Elements of applied ethology.

9. Content

9.1.LECTURE **Number of hours – 14**	Teaching methods	Notes
Animals and society.		1 lecture
Importance of animals in human Lives		1 lecture
The human-meat relationship		1 lecture
Biosecurity and personal equipment for safe handling and restraint of animals		1 lecture
The basics of human – animal interaction	Lecture	1 lecture
Safety procedures in working with animals		1 lecture
Environment, housing, and management		1 lecture
Interpreting an animal's body language and behavior		1 lecture
Animal procurement and transportation		1 lecture
Small animal handling skills		2 lectures
Handling large farm animals		1 lecture
Restraint techniques and implications for welfare		1 lecture
Stress and implications for handling and restraint		1 lecture

9.2. PRACTICAL WORK **Number of hours – 14**		
Protection measures and safety techniques		1 Practical work
Safety procedures in working with animals		1 Practical work
The animal body		1 Practical work
Types and tools of restraint		1 Practical work
Planning the restraint procedure	Practical applications	1 Practical work
Handling techniques for examining and assessing small animals		1 Practical work
Handling techniques for examining and assessing large farm animals		1 Practical work
Restraining (controlling) small and large ruminants		1 Practical work
Handling and restraining pigs and poultry		1 Practical work
Restrain horses, donkeys and mules		1 Practical work
Restraint Techniques for small animals		1 Practical work
Body response to stress stimulation		1 Practical work
Keys to good handling and restraint of all animals		1 Practical work
Student evaluation		

Compulsory bibliography:

- ***Course notes***

1 C.B. Chastain- Animal Handling and Physical Restraint, 2017

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant stakeholders in the corresponding field

The course has a similar content compared with other European universities courses and takes into account the level of preparation of students.
The course is important / fundamental for the development of working skills as future specialists in the graduated field.

11. Assessment

Type of activity	Assessment criteria	Assessment methods	Percentage of the final grade
11.1. Lecture	Level of knowledge	Exam	60%
11.2. Laboratory	Quality of presentation	Practical exam	40%
11.3. Minimum performance standards Knowledge 50% of the information contained in the course. Knowledge 50% of the information provided at practical work / seminar. 100% attendance at practical work / seminars is mandatory. Attendance at 50% courses is a condition for entering the exam.			

[1] Education levels- choose of the three options: Bachelor/Master/Ph.D.

[2] Discipline status (content)- for the undergraduate level, choose one of the options: **FD** (fundamental discipline), **DD** (domain discipline), **SD** (specialty discipline), **CD** (complementary discipline).

Discipline status (content)- for the master level, choose one of the options: **DA** (in-depth discipline), **DCA** (advanced knowledge discipline), **DPC** (complementary preparation discipline), **DS** (synthesis discipline – options depending on the domain).

[3] Discipline status (compulsoriness)- choose one of the options: **CoD** (compulsory discipline), **OD** (optional discipline), **ED** (elective discipline).

[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

Filled in on
23.09.2025

Course coordinator
Associate Professor Jurco Eugen Claudiu

Laboratory work/seminar coordinator
Associate Professor Jurco Eugen Claudiu

Subject coordinator
Associate Professor Jurco Eugen Claudiu

Approved by the Department on
24.09.2025

Head of the Department
Associate Professor Cristian Coroian

Approved by the Faculty Council on
24.09.2025

Dean
Prof.eng. Dan Dezmirean

UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
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www.usamvcluj.ro

No._____of _____ **USAMV form 0312010213**

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Animal Science and Biotechnologies
1.3. Department	Fundamental sciences
1.4. Field of study	Animal Science
1.5.Education level	Master
1.6.Specialization/ Study programme	Ethology and human-animal interaction
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	**Animal health and diseases**							
2.2. Course coordinator				**Prof. Adriana Criste PhD**				
2.3. Seminar/ laboratory/ project coordinator				**Lecturer Adriana Urcan PhD**				
2.4. Year of study	**1**	2.5. Semester	**2**	2.6. Type of evaluation	**sumative**	2.7. Discipline status	Content[2]	FD
							Compulsoriness [3]	CD

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	3	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	2
3.4.Total number of hours in the curriculum	42	Out of which: 3.5.lecture	14	3.6.seminar/laboratory	28
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography, and notes					20
3.4.2. Additional documentation in the library, specialized electronic platforms, and field					22
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios, and essays					20
3.4.4.Tutorials					10
3.4.5.Examinations					1
3.4.6. Other activities					10
3.7. Total hours of individual study	83				
3.8. Total hours per semester	**125**				
3.9. Number of credits[4]	**5**				

4. Prerequisites (is applicable)

4.1. curriculum-related	General biology
4.2. skills-related	Microsoft Office, Literature database search

5. Conditions (if applicable)

5.1. for the lecture	The course is interactive, students can ask questions regarding the content of lecture. Academic discipline requires compliance with the start and end of the course.
5.2. for the seminar/ laboratory/ project	During practical works, each student will develop an individual activity with laboratory materials (made available in the book that describes the laboratory

	work). Academic discipline is imposed throughout the course of practical works.

6. Specific competences acquired

Professional competences	Students will understand the basis and principles animal health, how to manage animal first aid, and how to recognise some common illnesses in animals and will have the basis for further learning on the application in the field.
Transversal competences	Development of information and documentation skills, group activity and use of computer tools for searching and processing analytical data. Competences in reflecting on various problems, topics or methodologies, and on exercising cognitive flexibility

7. Learning outcomes

7.1 Knowledge	The student/graduate understands the basic principles of animal health and disease, along with the biological, environmental, and behavioural factors contributing to zoonotic risks. They are familiar with risk pathways in human-animal interactions and strategies for disease prevention and control
7.2 Skills	The student/graduate identifies signs of animal illness, assesses potential zoonotic threats, and applies preventive measures to reduce health risks in human-animal contexts. They use their knowledge to support both individual animal welfare and public health standards.
7.3 Responsibility and autonomy	The student/graduate applies ethical and safety principles in managing zoonotic risk, ensuring the well-being of both animals and humans in shared environments. They contribute to the development and implementation of preventive strategies and uphold responsibilities related to animal care and health protection.

8. Course objectives (based on the list of competences acquired)

8.1. Overall course objective	• Provide basic knowledge in the field of animal health and diseases. • Familiarization with key concepts and models for managing animal health and diseases
8.2. Specific objectives	• Acquiring knowledge related to optimum health as essential for the wellbeing and longevity of all animals. • Understanding the normal behaviour of the animal, information on the history of the animal health, a physical health check, observing the species and specialized testing to identify the cause of the illness. • Understanding the impact of surveillance and monitoring on farm/companion animal disease • Understanding the strategies to improve animal health and welfare

9. Content

9.1. LECTURE	Teaching methods	1 lecture = 2 hours
Number of hours 14		
Preventing disease and injury		1 lecture
Understanding & inspecting health issues		1 lecture
Animal first aid	lecture, heuristic	1 lecture
Some common illnesses in animals	conversation, explanation	2 lectures

Treatment of disease Strategies to improve animal health and welfare in the future and the role of different Stakeholders		1 lecture 1 lecture

9.2. PRACTICAL WORK **Number of hours 28** European commission Animal Health strategy. State and quality of the current animal health system. Recommendations for strengthening the animal health framework. Health Checks and Observations. Keeping Animals Animal diseases and their vectors Microorganisms involved in multiple species diseases Animal disease: Cattle, Sheep and goat diseases etiology, impact, and control Animal disease: Equine, Swine, Poultry diseases, etiology, impact, and control Animal disease: Companion-animal diseases etiology, impact, and control. Final evaluation	Theoretical presentation of practical works	(2 hours / lab work) 1 lab work 1 lab work 1 practical work 3 practical work 3 practical work 2 practical work 2 practical work 1 practical work 2h
Compulsory bibliography: Animal Health 2nd edition, ISBN: 978-0-9954356-1-2 Distance Learning And Online Courses E-Books By John Mason And ACS Staff Rahman, M., Sobur, M., Islam, M., Ievy, S., Hossain, M., El Zowalaty, M. E., ... & Ashour, H. M. (2020). Zoonotic diseases: etiology, impact, and control. Microorganisms, 8(9), 1405.		
Optional bibliography: Jibachha's Textbook ofAnimal Health Vol.-I		

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant stakeholders in the corresponding field

A strong collaboration with NGOs involved in animal protection.

11. Assessment

Type of activity	Assessment criteria	Assessment methods	Percentage of the final grade
11.1. Lecture	Level of knowledge	Evaluation	50%
11.2. Seminar/Laboratory	Quality of presentation	Practical exam	50%
11.3. Minimum performance standards 5 (five) Knowledge 50% of the information contained in the course. Knowledge 50% of the information provided at practical work / seminar. 100% attendance at practical work / seminars is mandatory. Attendance at 50% courses is a condition for entering the exam. Learning scientific information and specialized language from the course and practical work at a medium level. Obtaining the final average for passing the checks on the way is a condition of passability.			

[1] Education levels- choose of the three options: Bachelor/ * Master/Ph.D.
[2] Discipline status (content) - for the master's level one of the options is chosen - DA (deepening discipline), DCA (advanced knowledge discipline), DPC (complementary training discipline), DS (synthesis discipline - options depending on the field).
[3]/ Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).
[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).
[5] / * Disciplines: AK- Advanced knowledge, CT- Complementary Training, S- Synthesis

Filled in on
23.09.2025

Course coordinator
Prof. Adriana Criste PhD

Laboratory work/seminar coordinator
Lecturer Adriana Urcan PhD

Subject coordinator
Prof. Adriana Criste PhD

Approved by the
Department on
24.09.2025

Head of the Department
Assoc prof. Radu Constantinescu PhD

Approved by the Faculty
Council on
24.09.2025

Dean

Prof. dr. Daniel S. Dezmirean

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UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
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No._____of _____ **USAMV form 0312010214**

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Animal Science and Biotechnologies
1.3. Department	Technological Sciences
1.4. Field of study	Animal Science
1.5.Education level	Master
1.6.Specialization/ Study programme	
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	**Wild and zoo animals' husbandry, management and welfare**							
2.2. Course coordinator				**Lecturer Bogdan Vlaic**				
2.3. Seminar/ laboratory/ project coordinator				**Lecturer Bogdan Vlaic**				
2.4. Year of study	1	2.5. Semester	**2**	2.6. Type of evaluation	V	2.7. Discipline status	Content[2]	DA
							Compulsoriness[3]	OD

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	3	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	2
3.4.Total number of hours in the curriculum	42	Out of which: 3.5.lecture	14	3.6.seminar/laboratory	28
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes					40
3.4.2. Additional documentation in the library, specialized electronic platforms and field					37
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					20
3.4.4.Tutorials					0
3.4.5.Examinations					1
3.4.6. Other activities					10
3.7. Total hours of individual study	108				
3.8. Total hours per semester	150				
3.9. Number of credits[4]	6				

4. Prerequisites (is applicable)

4.1. curriculum-related	General biology/Ecology
4.2. skills-related	Microsoft Office, Literature database search

5. Conditions (if applicable)

5.1. for the lecture	Teaching manuals: Devra G. Kleiman, Katerina V. Thompson, Charlotte Kirk Baer, 2010,Wild Mammals in Captivity, , The University of Chicago Press, Chicago Lecture notes:Course notes

	Course presentation in pptx format: **Bogdan Vlaic** Logistic support: video projector, interactive whiteboard and PowerPoint presentations. Participation in a minimum of 50% of courses is a condition for participation in the exam.
5.2. for the seminar/ laboratory/ project	Teaching manuals: EU Zoos Directive Good Practices Document, 2015 Seminar notes: Place of laboratory: laboratory room and field trips Laboratory equipment: video projector, laptop Participation in 100% laboratory/seminar work is a condition for the exam participation.

6. Specific competences acquired

Professional competences	1) The formation of theoretical and practical skills by correlating the information received with those acquired in the disciplines Animal behaviour, Animal welfare. 2) The training of specialists in the field of Ethology who have the ability to follow master programs in the field of Ethology with orientation towards theoretical and applicative aspects 3) Learning outcomes which allow the formation of skills and practical skills in dynamics of the field Ethology and human-animal interaction
Transversal competences	1) The use of theoretical aspects learned in solving practical problems. 2) Developing the capacities to use the information received within other disciplines (Animal behaviour, Animal welfare, Conservational biology). 3) Ability to work in a team. 4) Use of specialised terminology in various contexts. 5) Compliance with the principles of professional ethics.

7. Learning outcomes

7.1 Knowledge	The student/graduate demonstrates a solid understanding the biological, ecological, and behavioral characteristics of wild and zoo animals, knowledge of principles and methods of animal husbandry specific to wild and captive populations, familiarity with welfare standards, enrichment practices, and ethical considerations in zoos and wildlife facilities.
7.2 Skills	The student/graduate applies tools to assess animal welfare through behavioral and physiological indicators, application of husbandry techniques adapted to species-specific needs (nutrition, housing, health care), designing and implementing enrichment programs that promote natural behaviors and psychological well-being.
7.3 Responsibility and autonomy	The student/graduate assumes responsibility in applying welfare principles and ethical standards in animal management.

8. Course objectives (based on the list of competences acquired)

8.1. Overall course objective	Fundamental discipline (to be replaced as appropriate) of advanced knowledge that allows the development of knowledge regarding wildlife diseases, wild and zoo animal welfare, zoo medicine and conservation Together with the other disciplines in the curriculum, it ensures the implementation and formation of complex concepts on husbandry, management and welfare of wild animals.
8.2. Specific objectives	Obtaining learning outcomes that aim in the formation of skills and abilities based on the correlation of the information received with those acquired in other disciplines such as Animal behaviour, Animal welfare, Conservational biology

9. Content

9.1. LECTURE **Number of hours 14** Introduction (1h) Animal welfare in zoos: concepts, evaluation, stress, behavioural problems (2h) Zoo medicine: infertility, reproduction management and birth control issues (1h) Zoo medicine: therapeutics (1h) Zoo medicine: specific conditions by group (mammals, birds, reptiles, amphibians, aquatic species) (2h) Wildlife medicine: concepts, approaches and applications (1h) Emerging diseases of wildlife. Wildlife origin zoonoses (2h) Conservation medicine: concepts and applications (3h)	Lecture	1 lecture = 2 hours

9.2. PRACTICAL WORK **Number of hours 28** Evaluation and management of stress in zoos (4h) Evaluation of the health of zoo animals (6h) Exercise: imagine a birth control and reproduction management program for a medium-sized zoo (4h) Case study: emerging diseases n endangered wildlife (4h) Exercise: imagine a conservation medicine project (4h) Case studies: human diseases of wildlife origin (2h) Wildlife disease modelling (4h)	Theoretical presentation of practical works	1 lab work (2 hours / work)
Compulsory bibliography: Miller RE, Lamberski N, Calle PP. 2019. Fowler's Zoo and wild animal medicine: current therapy. 9th Edition. Elsevier, 734 pp. *Alonso Aguirre A, Ostfeld R, Daszak P. 2012. New Directions in Conservation Medicine: Applied Cases of Ecological Health, Oxford University Press, 672 pp.*		
Optional bibliography:		

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant stakeholders in the corresponding field

The course has a similar content compared with other European universities courses and takes into account the level of preparation of students. The course is fundamental for the development of working skills as future specialists in the graduated field.

11. Assessment

Type of activity	11.1. Assessment criteria	11.2. Assessment methods	11.3. Percentage of the final grade
11.4. Lecture	Level of knowledge	Exam	60%
11.5. Seminar/Laboratory	Quality of presentation	Practical exam	40%
11.6. Minimum performance standards			
Knowledge 50% of the information contained in the course. Knowledge 50% of the information provided at practical work / seminar. 100% attendance at practical work / seminars is mandatory. Attendance at 50% courses is a condition for entering the exam.			

[1] Education levels- choose of the three options: Bachelor/ * Master/Ph.D.
[2] Discipline status (content)- for the undergraduate level, choose one of the options:- **FD** (fundamental discipline), **BD**

(basic discipline), **CS** (specific disciplines-clinical sciences), **AP** (specific disciplines-animal production), **FH** (specific disciplines-food hygiene), **UO** (disciplines based on the university's options).

[3/] Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).

[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

[5 / *] Disciplines: AK- Advanced knowledge, CT- Complementary Training, S- Synthesis

Filled in on
6.09.2024

Course coordinator
Lecturer Bogdan Vlaic

Laboratory work/seminar coordinator
Lecturer Bogdan Vlaic

Subject coordinator
.....

Approved by the
Department on
..13.09.2024

Head of the Department
Prof. Răducu Camelia, PhD

Approved by the Faculty
Council on
..27.09.2024...

Dean
Prof. Dezmirean S.Daniel, PhD

UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
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No._____of _____ **USAMV form 0312010215**

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca
1.2. Faculty	Animal Science and Biotechnologies
1.3. Department	Technological Sciences
1.4. Field of study	Animal Science
1.5.Education level	Master
1.6.Specialization/ Study programme	Ethology and Human-Animal Interaction
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	Social Insects Behaviour and Farming							
2.2. Course coordinator			Lecturer Adela Ramona Moise, PhD					
2.3. Seminar/ laboratory/ project coordinator			Lecturer Adela Ramona Moise, PhD					
2.4. Year of study	I	2.5. Semester	**II**	2.6. Type of evaluation	continuous	2.7. Discipline status	Content[2]	DA
							Compulsoriness[3]	OD

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	2	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	1
3.4.Total number of hours in the curriculum	28	Out of which: 3.5.lecture	1	3.6.seminar/laboratory	1

Distribution of the time allotted	hours
3.4.1. Study based on book, textbook, bibliography and notes	50
3.4.2. Additional documentation in the library, specialized electronic platforms and field	20
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays	20
3.4.4.Tutorials	20
3.4.5.Examinations	12
3.4.6. Other activities	

3.7. Total hours of individual study	122
3.8. Total hours per semester	150
3.9. Number of credits[4]	6

4. Prerequisites (is applicable)

4.1. curriculum-related	Apiculture and sericultural biotechnology, Genetic engineering, Molecular biology, General and special microbiology
4.2. skills-related	Use of simple laboratory equipment. Application of physico-chemical techniques and working protocols for laboratory analyzes.

5. Conditions (if applicable)

5.1. for the lecture	Teaching manuals: according to the bibliography Lecture notes Course presentation in pptx format: Lecturer Adela Ramona Moise

	Logistic support: video projector, interactive whiteboard and PowerPoint presentations. Participation in a minimum of 50% of courses is a condition for participation in the exam. The course takes place interactively, in amphitheatres and laboratories, students benefiting from logistical support. Second cycle students will be involved in discussions related to the topics addressed. The university discipline requires the observance of the start and end time of the course.
5.2. for the seminar/ laboratory/ project	Teaching manuals: according to the bibliography Laboratory/seminar notes Place of laboratory: laboratory room of Apiculture and Sericulture Unit Laboratory equipment: existing in the Apiculture and Sericulture laboratory Specialized software: attached to laboratory equipment Specific laboratory reagents and supplies Participation in 100% of laboratory/seminar work is a condition for participation in the exam Research laboratories will be available to master's students for making determinations with modern equipment. The projects are prepared according to the theme and can constitute a case study.

6. Specific competences acquired

6.1 Professional competences	1) The formation of theoretical and practical skills by correlating the received information with those acquired in the disciplines of Anatomy, Biochemistry, Biotechnologies, Beekeeping and Sericulture, Entomology 2) The training of specialists in the field of Ethology and Human-Animal Interaction who have the ability to study at master's programs in the field of Animal Sciences, with orientation towards the theoretical and applied aspects of Ethology 3) Learning outcomes that enable the formation of practical skills and abilities in the agreement to the dynamics of the field of Animal Science. Thus, master's students will have to: - know, analyze and apply procedures related to analytical techniques for investigating biotechnological potential of insects; - have the ability to choose a certain method or technique in a certain context, in accordance with the specific situations and with the resources available in the laboratories of social insects. - identify and purify biologically active compounds from bee and sericulture products with high value for nanotechnologies. - know the techniques for identifying and quantifying the hygienic behavior of social insects - acquire practical skills related to the biotechnological potential of social insects.
6.2 Transversal competences	1) The use of theoretical aspects learned in solving practical problems. 2) Developing the capacities to use the information received within other Disciplines (Anatomy, Biochemistry, Biotechnologies, Apiculture and Sericulture, Enthomology). 3) Ability to work in a team. 4) Use of specialised terminology in various contexts. 5) Compliance with the principles of professional ethics. 6) Development of information and documentation skills, collaboration with the group and use of information and processing and interpretation of analytical data. 7) Abilities to solve different problems, to demonstrate cognitive flexibility. 8) Establishing good communication between students and teacher. 9) Attracting and involving the master student in the teaching process. 10) Development of methodological skills: formulation of research topics, their presentation in writing, scientific approach to topics, collaboration and teamwork.

7. Learning outcomes

7.1 Knowledge	The student/graduate demonstrates a solid understanding of animal behaviour and welfare concepts, including behavioural patterns and social structures in various species such as social insects and non-conventional domestic species. They are familiar with methods of behavioural assessment and the principles underlying species-appropriate welfare practices, including hobby-farming contexts.
7.2 Skills	The student/graduate applies tools for observing and measuring animal behaviour, interprets species-specific responses in diverse environments, and develops tailored welfare strategies. They are capable of adapting their approach to behavioural needs across a range of species, like social insects kept in small-scale or commercial and non-commercial farming systems.
7.3 Responsibility and autonomy	The student/graduate assumes ethical responsibility in evaluating and promoting animal welfare, demonstrating critical thinking in applying behaviour-based assessments. They contribute independently to the implementation of welfare measures across traditional, exotic, and hobby-based animal care settings, promoting respectful and informed human-animal interactions.

8. Course objectives (based on the list of competences acquired)

7.1. Overall course objective	In-depth (DA) discipline of advanced knowledge that allows the development of knowledge regarding modern techniques applied in biotechnologies principles. Together with the other disciplines in the curriculum, it ensures the implementation and formation of complex concepts on insect's knowledge and assimilation of in-depth knowledge of modern techniques applied in the principles of ethology and human-animal interaction, as well as knowledge of modern equipment used in specialized laboratories.
7.2. Specific objectives	Obtaining learning outcomes that aim in the formation of skills and abilities based on the correlation of the information received with those acquired in other disciplines such as Anatomy, Biochemistry, Biotechnologies, Apiculture and Sericulture, Entomology

9. Content

9.1.LECTURE **Number of hours –14**	Teaching methods	Notes
SOCIAL INSECTS AND ITS BIOTECHNOLOGICAL POTENTIAL The concept of biotechnologies applied in social insect's studies (useful insects)	Lecture	2 lecture
THE INSECTS The orders of insect; uses of insects; insect's diversity. Insects as human food, insects as feeding for domesticated animals, other benefits of insects.	Lecture	2 lectures
INSECT DEVELOPMENT AND LIFE STORIES Growth, life history patterns and phases, effects of environmental factors on insect developments.	Lecture	2 lecture
INSECTS BEHAVIOR AND ACTIVITY. EUSOCIALITY Behaviour models and insect's sense. Ecology and Evolution of Communication in Social Insects. Eusocial and Sub-social Insects	Lecture	2 lectures
SOCIAL INSECTS IN BIOTECHNOLOGIES. APIDOLOGY Honey bees as a study model for the evolution and regulation of social behaviour at the endocrine, cellular, genomic and molecular level	Lecture	2 lecture
CONTROL AND TREATMENT TECHNIQUES IN SOCIAL INSECTS HEALTH New control and treatment techniques based on the biologically active effect of natural products and plant secondary metabolites applied in social insect's health issues. Hygienic behaviour- generalities and genetic determinism. **OTHER SOCIAL INSECTS** *Wasps, Ants, and Termites*	Lecture	2 lecture

INSECT FARMING FOR SUSTAINABLE FOOD SYSTEMS AND IMPROVEMENT OF INTERNATIONAL DEVELOPMENT	Lecture Lecture	1 lecture 1 lecture

9.2. PRACTICAL WORK **Number of hours –**		
Monitoting the bee's colonies and applied improvement schemes	Practical work in apiary	2 practical work
Applied apidology: monitoring individuals in the bee family during metamorphosis in various experimental designs.	Study of insects behaviour and metamorphosis processes in different experimental conditions.	2 practical work
Experimental design to identify bee's resistance to *Varroa destructor*. Transcriptomics experiments and techniques.	Practical work in apiary: controlling the *Varroa* presence in beehive, collecting samples and laboratory analyses	2 practical works
Techniques for identifying sensitive hygienic behavior in honey bees	Experimental scheme in laboratory for hygienic behaviour determination	2 practical work
Laboratory diagnosis of the main pathogens affecting the social bees	Laboratory techniques applied in hands-on work for pathogens identification	2 practical work
Practical applications of some social insects	Study of the main social insect's importance in practical aspects of human lives.	1 practical work
Designing farms for the sustainable growth of social insects	Social insects Farming design. Challenges and efficiency quantification.	3 practical work

Compulsory bibliography:

1. Course notes
2. Dezmirean, D.S. (2013). Curs de biotehnologii în apicultură şi sericicultură, Ed. Academic Press
3. Mărghitaş L. (2005). Albinele şi produsele lor, Ed. Ceres, Bucureşti, Ediţia a III-a
4. Dezmirean, D.S. (2007). Tehnologii apicole speciale, Ed. Academic Press
5. Dezmirean, D.S. (2013). Indrumător de lucrări practice pentru biotehnologii în apicultură, Ed. AcademicPress, Cluj-Napoca

Optional bibliography:

1. Bratburd, Jennifer, (2020), Defensive Symbioses in Social Insects Can Inform Human Health and Agriculture, Front. Microbiol., Sec. Evolutionary and Genomic Microbiology, (11).
2. Leonhard, Diana, (2016), Ecology and Evolution of Communication in Social Insects, Cell 164 (6), 1277-1287
3. Zinabu Anamo, Negga Baraki (2008), Medical Enthomology, Haramaya University, EPHTI, 196 pages.
4. Piere Jean Prost, Yves le Conte- Apiculture (2005) – Connaitre labeile, Conduire le rucher
5. www.beekeeping.com

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant stakeholders in the corresponding field

The course has a similar content to courses in other European universities and takes into account the level of preparation of the students.
The course is fundamental for the development of work skills as future specialists in the graduated field.
In order to update knowledge in the field of social insects, to identify ways to modernize and continuously improve teaching and course content, with the most current topics and practical problems, teachers will participate in scientific events organized in the country and abroad, in events of the Association Beekeepers from Romania, at the annual meeting of the International Honey Commission and at the conferences organized by different forums in entomology domain.

11. Assessment

Type of activity	Assessment criteria	Assessment methods	Percentage of the final grade
11.1. Lecture	Social insects – anatomy, behaviour, utility,	Exam	70%

	importance for the ecosystems; the main social insects representatives; Ecology and Evolution of Communication in Social Insects. Eusocial and Sub-social Insects; Eusociality concept; Apidology importance; Hygienic behaviour importance- generalities and genetic determinism; The importance of social insects farming.		
11.2. Seminar/Laboratory	Experimental design for apidological study at the level of individual and bee family; Transcriptomic techniques; Social insect's farm design	Oral presentation of a scientific report regarding social insects behaviour and farming	30%
11.3. Minimum performance standards Knowledge 50% of the information contained in the course. Knowledge 50% of the information provided at practical work / seminar. 100% attendance at practical work / seminars is mandatory. Attendance at 50% courses is a condition for entering the exam.			

[1] Education levels- choose of the three options: Bachelor/Master/Ph.D.

[2] Discipline status (content)- for the undergraduate level, choose one of the options: **FD** (fundamental discipline), **DD** (domain discipline), **SD** (specialty discipline), **CD** (complementary discipline).

Discipline status (content)- for the master level, choose one of the options: **DA** (in-depth discipline), **DCA** (advanced knowledge discipline), **DPC** (complementary preparation discipline), **DS** (synthesis discipline – options depending on the domain).

[3] Discipline status (compulsoriness)- choose one of the options: **CoD** (compulsory discipline), **OD** (optional discipline), **ED** (elective discipline).

[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

Filled in on
23.09.2025

Course coordinator
Lecturer Adela Ramona Moise, PhD

Laboratory work/seminar coordinator
Lecturer Adela Ramona Moise, PhD

Subject coordinator
Prof. Daniel Dezmirean, PhD

Approved by the Department on
24.09.2025

Head of the Department
Assoc. Prof. Cristian Ovidiu Coroian, PhD

Approved by the Faculty Council on
24.09.2025

Dean
Prof. Daniel Dezmirean, PhD

UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
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No._____of _____ **USAMV form 0312020101**

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Animal Science and Biotechnologies
1.3. Department	Fundamental sciences
1.4. Field of study	Animal Science
1.5.Education level	Master
1.6.Specialization/ Study Program	Ethology and Human Animal Interaction
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	Elements of applied ethology 2
2.2. Course coordinator	Associate Professor Constantinescu Radu PhD
2.3. Seminar/ laboratory/ project coordinator	Associate Professor Constantinescu Radu PhD

3.1. Hours per week – full-time program	6	out of which: 3.2. lecture	2	3.3. seminar/ laboratory/ project	2
3.4.Total number of hours in the curriculum	56	Out of which: 3.5.lecture	28	3.6.seminar/laboratory	28
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography, and notes					25
3.4.2. Additional documentation in the library, specialized electronic platforms, and field					22
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios, and essays					20
3.4.4.Tutorials					10
3.4.5.Examinations					4
3.4.6. Other activities					10
3.7. Total hours of individual study	91				
3.8. Total hours per semester	175				
3.9. Number of credits[4]	7				

2.4. Year of study	**2**	2.5. Semester	**1**	2.6. Type of evaluation	Summative	2.7. Discipline status	Content[2]	FD
							Compulsoriness [3]	CD

3. Total estimated time (teaching hours per semester)

4. Prerequisites (is applicable)

4.1. curriculum-related	General Biology, Anatomy, physiology, Elements of applied ethology 1
4.2. skills-related	Microsoft Office, Microsoft Excel

5. Conditions (if applicable)

5.1. for the lecture	Interactive course; Q&A session at the end of lectures and/or chapter. Academic discipline requires compliance with the start and end of the course.
5.2. for the seminar/ laboratory/ project	During practical works, each student will develop an individual activity with laboratory materials (made available in the book that describes the laboratory

	work). Academic discipline is imposed throughout the course of practical works.

6. Specific competencies acquired

Professional competences	Students will develop skills in analysing animal behaviour.
Transversal competences	Development of information and documentation skills, group activity and use of computer tools for searching and processing analytical data. Competences in reflecting on various problems, topics, or methodologies, and on exercising cognitive flexibility.

7. Learning outcomes

7.1 Knowledge	The student/graduate understands the social, psychological, and ethical dimensions of human-animal relationships, including the role of animals in society, applied ethology (human and animal), and patterns of abnormal human-animal interaction. They are familiar with behavioural dynamics that support or compromise animal welfare and interspecies well-being.
7.2 Skills	The student/graduate identifies and interprets behavioural indicators of both healthy and dysfunctional human-animal interactions. They apply ethological and psychological frameworks to assess relational contexts, address problematic behaviours, and implement approaches that promote empathy, respect, and welfare in human-animal relationships.
7.3 Responsibility and autonomy	The student/graduate assumes responsibility in recognising and responding to inappropriate or harmful human-animal interactions. They contribute to fostering ethical standards in anthrozoological practices, promoting responsible interspecies relationships in educational, therapeutic and community settings.

8. Course objectives (based on the list of competencies acquired)

8.1. Overall course objective	• Knowledge and expertise in the field of ethology • Familiarization with scientific vocabulary
8.2. Specific objectives	• Performing ethograms • Interpretation of field data • Behaviour analysis • Properly using laboratory equipment

9. Content

9.1.LECTURE **Number of hours 42**	Teaching methods	1 lecture = 1 hours
Animal communication (sender, path, receiver)	lecture, heuristic conversation, explanation	1 lecture
Alternative behaviour (Why, When, Where, How?)		1 lecture
Parasite behaviour		1 lecture
Host behaviour		1 lecture
Hormones and behaviour		1 lecture
Ethogram modelling (procedure, risk, bias)		2 lecture
Animals in Covid Pandemy		1 lecture
Animal Defense Mechanisms		1 lecture
Anesthesia (how animals react when anesthetized)		1 lecture
Altruism in Animals		1 lecture
How to: Field observations (in farms)		1 lecture

How to: Field observations (wild) General review		1 lecture 1 lecture

9.2. PRACTICAL WORK **Number of hours 42** Animal communication 2 Ethodiversity and alternative behaviour Parasite behaviour Host behaviour Hormones and behaviour Ethogram modelling Animals in Covid Pandemy Animal Defense Mechanisms Anesthesia (timing) Altruism in Animals Field observations (in farms) Field observations (wild) General review	Theoretical presentation of practical works	(2 hours/lab work) 1 lecture 1 lecture 1 lecture 1 lecture 1 lecture 2 lecture 1 lecture 1 lecture 1 lecture 1 lecture 1 lecture 1 lecture 1 lecture 1 lecture
Compulsory bibliography: course materials, The Foundations of Ethology, Konrad Z. Lorenz, https://doi.org/10.1007/978-3-7091-3671-3. Ethology: The Mechanisms and Evolution of Behavior, James L. Gould, 1982		
Optional bibliography: The ethogram and animal behavior research, 2002, Janet Crews		

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations, and of the relevant stakeholders in the corresponding field

A strong collaboration with NGOs involved in animal protection.

11. Assessment

Type of Activity	10.1. Assessment criteria	10.2. Assessment methods	10.3. Percentage of the final grade
11.4. Lecture	Level of knowledge	Evaluation	50%
11.5. Seminar/Laboratory	Quality of presentation	Practical exam	50%
11.6. Minimum performance standards 5 (five)			
Learning scientific information and specialized language from the course and practical work at a medium level. Obtaining the final average for passing the checks on the way is a condition of passability.			

[1] Education levels- choose one of the three options: Bachelor/ * Master/Ph.D.

[2] Discipline status (content) - for the master's level one of the options is chosen - DA (deepening discipline), DCA (advanced knowledge discipline), DPC (complementary training discipline), DS (synthesis discipline - options depending on the field).

[3/] Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).

[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

[5 / *] Disciplines: AK- Advanced knowledge, CT- Complementary Training, S- Synthesis

Filled in on
23.09.2025

Course coordinator
Associate Professor Constantinescu Radu PhD

Laboratory work/seminar coordinator
Associate Professor Constantinescu Radu PhD

Subject coordinator
Associate Professor Constantinescu Radu PhD

Approved by the
Department on
24.09.2025

Head of the Department
Assoc. Prof. Constantinescu Radu PhD

Approved by the
FacultyCouncil on
.....

Dean

.....

UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
Calea Mănăştur 3-5, 400372, Cluj-Napoca
Tel: 0264-596.384, Fax: 0264-593.792
www.usamvcluj.ro

Nr._____by _____ **USAMV 0312020102**

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Animal Science and Biotechnologies
1.3. Department	Technological sciences
1.4. Field of study	Animal Science
1.5.Education level	Master
1.6.Specialization/ Study programme	Ethology and human-animal interaction
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	**Zoonotic risk management in human-animal interactions**							
2.2. Course coordinator				Assoc.prof. Ioan LADOȘI PhD				
2.3. Seminar/ laboratory/ project coordinator				Assoc.prof. Ioan LADOȘI PhD				
2.4. Year of study	II	2.5. Semester	I	2.6. Type of evaluation	continuous	2.7. Discipline status	Content[2]	DA
							Compulsoriness[3]	CD

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	2	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	1
3.4.Total number of hours in the curriculum	28	Out of which: 3.5.lecture	14	3.6.seminar/laboratory	14
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes					30
3.4.2. Additional documentation in the library, specialized electronic platforms and field					30
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					26
3.4.4.Tutorials					10
3.4.5.Examinations					1
3.4.6. Other activities					
3.7. Total hours of individual study	97				
3.8. Total hours per semester	**125**				
3.9. Number of credits[4]	**5**				

4. Pre-conditions (if aplicable)

4.1. curriculum-related	Animal health and diseases

4.2. skills-related	.

5. Conditions (if applicable)

5.1. for the lecture	Teaching manuals: Bauerfeind R., et al. (2016) – see refferences Lecture notes: by students Course presentation in pptx format: course Holder Logistic support: video projector, interactive whiteboard and PowerPoint presentations. Participation in a minimum of 50% of courses is a condition for participation in the exam.
5.2. for the seminar/ laboratory/ project	Teaching manuals: Colville JL et.al. (2007) – see refferences Laboratory/seminar notes: by students Place of laboratory: laboratory room Laboratory equipment: n/a Specialized Software used: Kahoot, Prezi Specific laboratory reagents/supplies Participation in 100% laboratory/seminar work is a condition for the exam participation

6. Specific competences acquired

Professional competences	1) The formation of theoretical and practical skills by correlating the information received with those acquired in the disciplines: Animal Health & Diseses 2) The training of specialists in the field of animal sciences who have the ability to follow master programs in the field of animal behavior and welfare with orientation towards theoretical and applicative aspects. 3) Learning outcomes which allow the formation of skills and practical skills in the dynamics of the field of emergence animal zoonosis for further learning on the applications in animal-human relations connected activities.
Transversal competences	1) The use of theoretical aspects learned in solving practical problems. 2) Developing the capacities to use the information received within other disciplines (Animal Health & Diseases). 3) Ability to work in a team. 4) Use of specialized terminology in various contexts. 5) Compliance with the principles of professional ethics. 6) Developing information and documentation skills, group activities and use of web based tools for searching, processing and usage of analytical data.

7. Learning outcomes

7.1 Knowledge	The Master student understands the basic principles of animal health and disease, along with the biological, environmental, and behavioural factors contributing to zoonotic risks. He becomes familiar with risk pathways in human-animal interactions and strategies for zoonotic disease prevention and control.
7.2 Skills	The Master student identifies signs of zoonotic illness, assesses potential zoonotic threats, and applies preventive measures to reduce health risks in human-animal contexts. He uses the acquired knowledge to support both individual animal welfare and public health standards.
7.3 Responsibility and autonomy	The Master student applies ethical and safety principles in managing zoonotic risks, ensuring the well-being of both animals and humans in shared environments. He contributes to the development and implementation of preventive strategies and uphold responsibilities related to animal care and health protection.

8. Course objectives (based on the list of competences acquired)

8.1. Overall course objective	Advanced discipline for in-deep knowledge that allows the development of knowledge regarding zoonotic risk in human-animal interactions Together with the other disciplines in the curriculum, it ensures the implementation and formation of complex concepts the integrated approach of the zoonosis and the impact on human-animal interactions
8.2. Specific objectives	Obtaining learning outcomes that aim in the formation of skills and abilities based on the correlation of the information received with those acquired in other

	disciplines such as Animal Behavior and Welfare.

9. Content

9.1.LECTURE **Number of hours – 14**	Teaching methods	Notes 1 lectur = 1 h
	Lecture =	
1. Zoonosis: definition, terms, classification	1 Oral course using	1
2. Strategies to mitigate the zoonotic risks	powerpoint	1
3. Management of the zoonotic risk of the main viral zoonosis: rabies, West Nile virus, Zika virus, Ebola virus, Nipah virus, Swine flu, etc;	presentation/ video content	1
4. Managing the zoonotic risk of the main bacterial zoonosis I: anthrax, tuberculosis, and brucellosis, Lyme disease, Q fever, leptospirosis		1
5. Managing the zoonotic risk of the main bacterial zoonosis II: melioidosis, bartonellosis, swine erysipelas		1
7. Managing the zoonotic risk of the main bacterial zoonosis II: listeriosis, psittacosis, salmonellosis, streptococcosis		1
8. The management of the zoonotic risk of the meat-borne parasitic zoonosis		1
9. The management of the zoonotic risk of the water-borne parasitic zoonosis		1
10. The management of the zoonotic risk of the milk-borne parasitic zoonosis		1
11. The management of the zoonotic risk of the raw vegetable/plant-borne parasitic zoonoses		1
12. EU ONE HEALTH system and zoonotic risk management		1
13. The management of the zoonotic risk of the reptile, amphibian-borne and poultry-related parasitic zoonosis		1
14. Role of OIE in zoonotic risk management and control		1

9.2. PRACTICAL WORK **Number of hours –14**	Theoretical presentation of practical works	1 lab work (1 hour / work)
		1 lab
1. Methods and technics for diagnosis and prevention of rabies		
2. Methods and technics for diagnosis and prevention of in anthrax and tuberculosis	Laboratory = PowerPoint	1 lab
3. Methods and technics for diagnosis and prevention of brucellosis and Lyme disease	presentations and practical	1 lab
4. Methods and technics for diagnosis and prevention of Q fever and leptospirosis	demonstrations aimed at	1 lab
5. Methods and technics for diagnosis and prevention of in bartonellosis and swine erysipelas	identifying the main zoonotic	1 lab
6. Methods and technics for diagnosis and prevention of listeriosis and psittacosis	pathogens	1 lab
7. Methods and technics for diagnosis and prevention of salmonellosis and streptococcosis		1 lab
8. Methods and technics for diagnosis and prevention of fish-borne trematodes		1 lab
9. Methods and technics for diagnosis and prevention of meat-borne parasitic zoonoses: trichinellosis and toxoplasmosis		1 lab
10. Methods and technics for diagnosis and prevention of meat-borne parasitic zoonoses: taeniosis, sarcosystosis		1 lab
11. Methods and technics for diagnosis and prevention of water-borne parasitic zoonoses: giardiasis, cryptosporidiosis		1 lab
12. Methods and technics for diagnosis and prevention of reptile- and amphibian-borne zoonoses: sparganosis and gnathostomiasis		1 lab
13. Methods and technics for diagnosis and prevention of zoonotic ectoparasites: sarcoptic mange and dermatophytoses		1 lab
14. Final evaluation - multiple choice test		1 lab

Compulsory bibliography:

1. Bauerfeind R, Von Graevenitz A, Kimmig P, Schiefer HG, Schwarz T, Slenczka W, Zahner H. 2016. Zoonoses: Infectious Diseases Transmissible Between Animals and Humans. ASM Press, pp. 532.
2. Colville JL, Berryhill DL. 2007. Handbook of Zoonoses: Identification and Prevention. Mosby Inc., pp. 249.
3. Lvov DK, Shchelkanov MY, Alkhovsky SV, Deryabin PG. 2015. Zoonotic Viruses of Northern Eurasia: Taxonomy and Ecology. Academic Press, pp. 440.

4. Singh Dhaliwal B. B., Prayag Dutt Juyal, 2013. Parasitic Zoonoses. Springer, pp. 135.
Optional bibliography:
Gherman CM. 2013. Textbook of Veterinary Parasitology: Acanthocephala and Nematoda, AcademicPres. pp. 282.
Gherman CM. 2020. Textbook of Veterinary Parasitology: Plathelminthes, AcademicPres. pp. 452.

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant stakeholders in the corresponding field

The course has a similar content compared with other European universities courses and takes into account the level of preparation of students and it is important / fundamental for the development of working skills as future specialists in the graduated field.
Linking the lecture content and practical activities with the necessities of epistemic community representatives, professional associations, and employers' representatives in issues related to Zoonotic risk management in human-animal interactions.

11. Assessment

Type of activity	11.1. Assessment criteria	11.2. Assessment methods	11.3. Percentage of the final grade
11.4. Lecture	Evaluating the knowledge of what zoonosis are, type of zoonosis, classification and impact on human animal interactions Assessing the knowledge level of management methods in viral, bacterial parasitic and mycotic zoonosis	Exam	50%
11.5. Seminar/Laboratory	Acquire the ability to understand and apply prevention for the main zoonosis	Multiple choice test	50%
11.6. Minimum performance standards			
Knowledge 50% of the information contained in the course. Knowledge 50% of the information provided at the seminar. 100% attendance at seminars is mandatory. Attendance at 50% courses is a condition for entering the exam.			

[1] Education levels- choose of the three options: Bachelor/ * Master/Ph.D.
[2] Discipline status (content) – for the Master level choose one of the following options - **DA** (advanced discipline**), DAC** (advanced knowledge discipline)**, CSD** (complementary study discipline), **SD** (synthesis discipline)**.**
Discipline status (content)- for the undergraduate level, choose one of the options:- **FD** (fundamental discipline), **BD** (basic discipline), **CS** (specific disciplines-clinical sciences), **AP** (specific disciplines-animal production), **FH** (specific disciplines-food hygiene), **UO** (disciplines based on the university's options).
[3/] Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).
[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).
[5 / *] Disciplines: AK- Advanced knowledge, CT- Complementary Training, S- Synthesis

Filled in on
12.09.2025

Course coordinator
Assoc.prof. Ioan LADOȘI Ph.D

Seminar coordinator
Assoc.prof. Ioan LADOȘI Ph.D

Discipline coordinator,
Assoc.prof. Ioan LADOȘI Ph.D

Approved by the
department on
.....

Head of the Department
Assoc.prof.dr. Cristian O. COROIAN

……..

Appoved by the Faculty Council

.....

Dean,
Prof. dr. Daniel S. DEZMIREAN

.....

UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
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No._____of _____ **USAMV form 0312020103**

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Animal Sciences and Biotechnologies
1.3. Department	Technological sciences
1.4. Field of study	Animal Science
1.5.Education level	Master
1.6.Specialization/ Study programme	Ethology and human-animal interaction
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	**Measuring Animal Behaviour**							
2.2. Course coordinator				Associate Professor Jurco Eugen Claudiu				
2.3. Laboratory coordinator				Associate Professor Jurco Eugen Claudiu				
2.4. Year of study	II	2.5. Semester	I	2.6. Type of evaluation	E	2.7. Discipline status	Content[2]	DA
							Compulsoriness [3]	CD

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	3	out of which: 3.2. lecture	1	3.3. laboratory	2
3.4.Total number of hours in the curriculum	42	Out of which: 3.5.lecture	14	3.6. laboratory	28

Distribution of the time allotted	hours
3.4.1. Study based on book, textbook, bibliography and notes	30
3.4.2. Additional documentation in the library, specialized electronic platforms and field	40
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays	30
3.4.4.Tutorials	3
3.4.5.Examinations	3
3.4.6. Other activities	2

3.7. Total hours of individual study	108
3.8. Total hours per semester	150
3.9. Number of credits[4]	6

4. Prerequisites (is applicable)

4.1. curriculum-related	Fundamental Skills for Anthrozoology
4.2. skills-related	The student is expected to possess knowledge of the general behaviour and physiology of animals.

5. Conditions (if applicable)

5.1. for the lecture	Lecture notes Course presentation in pptx format: course Holder Logistic support: video projector, interactive whiteboard and PowerPoint presentations. Participation in a minimum of 50% of courses is a condition for participation in the exam.
5.2. for the laboratory	Laboratory notes Place of laboratory: laboratory room 43/ resort SDE Cojocna/ place of private partner sector During practical works, each student will develop an individual activity with laboratory materials and animals. Participation in 100% laboratory work is a condition for the exam participation.

6. Specific competences acquired

6.1 Professional competences	Students will know how to design and implement studies that measure animal behaviour and physiological correlates of behaviour. Students will be able to select and apply appropriate ethological and statistical methods for recording, quantifying, and analyzing behavioural data. Students will develop the ability to critically evaluate scientific literature on animal behaviour and interpret findings in the context of animal welfare, ecology, and applied research.
6.2 Transversal competences	Students will demonstrate skills in providing consulting in the field of animal behavior Ability to work in a team. Use of specialised terminology in various contexts. Compliance with the principles of professional ethics.

7. Learning outcomes

7.1 Knowledge	The student/graduate demonstrates a solid understanding of concepts in animal behaviour measurement, including behavioural patterns, social structures, and methods for systematic observation. They are familiar with techniques for behavioural assessment, data collection, and the principles underlying species-appropriate recording and analysis of behaviour.
7.2 Skills	The student/graduate applies tools for observing and measuring animal behaviour, interprets species-specific responses in diverse environments, and develops tailored welfare strategies. They are capable of adapting their approach to behavioural needs across a range of species, from social insects to wild species and animals kept in small-scale or non-commercial farming systems.
7.3 Responsibility and autonomy	The student/graduate assumes ethical responsibility in evaluating and promoting animal behaviour and welfare, demonstrating critical thinking in applying behaviour-based assessments.

8. Course objectives (based on the list of competences acquired)

8.1. Overall course objective	An in-depth discipline providing advanced knowledge that supports the development of understanding and skills related to measuring animal behaviour.
8.2. Specific objectives	Obtaining learning outcomes that aim in the formation of skills and abilities

	based on the correlation of the information received with those acquired in other disciplines such as Fundamental Skills for Anthrozoology, Animal behaviour and animal welfare, Elements of applied ethology.

9. Content

9.1.LECTURE **Number of hours – 14**	Teaching methods	Notes
What is Animal Behaviour and why does is matter?		1 lecture
Why measure animal behaviour?		1 lecture
Think before you measure		1 lecture
The steps involved in studying behaviour		2 lectures
How to observe and describe behavior		2 lectures
Collecting the data: Recording methods	Lecture	2 lectures
Collecting the data: Data collection equipment		1 lecture
Constructing an ethogram		1 lecture
Analyzing the results		1 lecture
Interpretation and presentation of results		2 lectures

9.2. PRACTICAL WORK **Number of hours – 28**		
Protection measures and safety procedures in working with animals		1 Practical work
Describing and measuring behavior		2 Practical works
Methodology for observing and measuring behavior		1 Practical work
Constructing an ethogram	Practical applications	1 Practical work
Case study 1 of measuring behavior		2 Practical works
Case study 2 of measuring behaviour		2 Practical works
Case study 3 of measuring behaviour		2 Practical works
Analyzing the results using statistical tests		2 Practical works
Interpretation and presentation of results		1 Practical work

Compulsory bibliography:
- ***Course notes***

1. Paul Martin, Patrick Bateson, 2007, Measuring Behaviour. An Introductory Guide. Third edition. Cambridge University

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant stakeholders in the corresponding field

The course has a similar content compared with other European universities courses and takes into account the level of preparation of students.
The course is important / fundamental for the development of working skills as future specialists in the graduated field.

11. Assessment

Type of activity	Assessment criteria	Assessment methods	Percentage of the final grade
11.1. Lecture	Level of knowledge	Exam	60%
11.2. Laboratory	Quality of presentation	Practical exam	40%
11.3. Minimum performance standards Knowledge 50% of the information contained in the course.			

Knowledge 50% of the information provided at practical work. 100% attendance at practical works is mandatory. Attendance at 50% courses is a condition for entering the exam.

[1] Education levels- choose of the three options: Bachelor/Master/Ph.D.

[2] Discipline status (content)- for the undergraduate level, choose one of the options: **FD** (fundamental discipline), **DD** (domain discipline), **SD** (specialty discipline), **CD** (complementary discipline).

Discipline status (content)- for the master level, choose one of the options: **DA** (in-depth discipline), **DCA** (advanced knowledge discipline), **DPC** (complementary preparation discipline), **DS** (synthesis discipline – options depending on the domain).

[3] Discipline status (compulsoriness)- choose one of the options: **CoD** (compulsory discipline), **OD** (optional discipline), **ED** (elective discipline).

[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

Filled in on 23.09.2025

Course coordinator
Associate Professor Jurco Eugen Claudiu

Laboratory work/seminar coordinator
Associate Professor Jurco Eugen Claudiu

Subject coordinator
Associate Professor Jurco Eugen Claudiu

Approved by the Department on 24.09.2025

Head of the Department
Associate Professor Cristian Coroian

Approved by the Faculty Council on 24.09.2025

Dean
Prof.eng. Dan Dezmirean

UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
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www.usamvcluj.ro

USAMV form 0312020104

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Animal Science and Biotechnologies
1.3. Department	Fundamental Sciences
1.4. Field of study	Animal Science
1.5.Education level	Master
1.6.Specialization/ Study programme	Ethology and human-animal interaction
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	**Animal assisted activities and therapy**							
2.2. Course coordinator	**Prof. Dr. Rusu Alina Simona**							
2.3. Seminar/ laboratory/ project coordinator	**Prof. Dr. Rusu Alina Simona**							
2.4. Year of study	II	2.5. Semeste	1	2.6. Type of evaluation	continuous	2.7. Discipline status	Content[2]	FD
							Compulsoriness[3]	CD

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	3	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	2
3.4.Total number of hours in the curriculum	42	Out of which: 3.5.lecture	14	3.6.seminar/laboratory	28
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes					30
3.4.2. Additional documentation in the library, specialized electronic platforms and field					28
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					30
3.4.4.Tutorials					10
3.4.5.Examinations					2
3.4.6. Other activities					8
3.7. Total hours of individual study	108				
3.8. Total hours per semester	**150**				
3.9. Number of credits[4]	**6**				

4. Prerequisites (if applicable)

4.1. curriculum-related	Animal behaviour and animal welfare, animals in society and human education
4.2. skills-related	Fundamental skills for anthrozoology

5. Conditions (if applicable)

5.1. for the lecture	The course is interactive, students can ask questions regarding the content of lecture. Academic discipline requires compliance with the start and end of the course. We do not allow any other activities during the lecture, mobile phones will be turned off.
5.2. for the seminar/ laboratory/ project	During practical works, each student will develop an individual activity with laboratory materials (made available in the book that describes the laboratory

	work). Academic discipline is imposed throughout the course of practical works.

6. Specific competences acquired

Professional competences	• Understanding evidence-based scientific research methods in the field of human-animal interaction (HAI), with an emphasis on animal-assisted therapies and activities. • Ability to access scientific sources (including standardized tool sources) in terms of models and variables used in the literature and knowledge of ethical principles in research, including in the development of scientific papers.
Transversal competences	Development of information and documentation skills, group activity and use of computer tools for searching and processing analytical data. Competences in reflecting on various problems, topics or methodologies, and on exercising cognitive flexibility.

7. Learning outcomes

7.1 Knowledge	The student/graduate understands the principles and benefits of animal-assisted services, as well as the importance of self-care strategies to maintain well-being and professional effectiveness in animal-related fields.
7.2 Skills	The student/graduate applies techniques for planning and conducting animal-assisted interventions ethically and safely, while recognizing signs of stress in both animals and humans. They also implement self-care practices to sustain psychological and mental health in their professional roles.
7.3 Responsibility and autonomy	The student/graduate assumes responsibility for the welfare of animals and clients during therapeutic activities and actively maintains their own well-being through effective self-care, promoting resilience and long-term professional success.

8. Course objectives (based on the list of competences acquired)

8.1. Overall course objective	• Providing a corpus of theoretical notions of awareness of the therapeutic and formative (educational) value of positive human-animal interactions in improving significant aspects of the quality of human and animal life. • Implementation of theoretical knowledge in planning AAA / AAT interventions tailored to the needs of specific categories of people.
8.2. Specific objectives	• Conceptualizing the human-animal connection from the perspective of applied ethology and scientific approach (research-informed); • Providing the theoretical basis for understanding the mechanisms of animal-assisted services (AAS).

9. Content

9.1.LECTURES **Number of hours – 14**	Teaching methods	Notes 1 lecture = 1 hours
HISTORICAL APPROACH TO THE APPLIED VALUES OF THE HUMAN-ANIMAL CONNECTIONS	Lecture	2 lectures 2 lectures

CONCEPTUALIZATION OF ANIMALS AS THERAPEUTIC AGENTS		One lecture
THE IMPORTANCE OF ANIMAL BEHAVIOR KNOWLEDGE IN THE PREPARATION OF AAI PROGRAMS		One lecture
PSYCHO-SOCIAL AND PHYSIOLOGICAL BENEFITS OF AAI		2 lectures
INTER-INDIVIDUAL AND CULTURAL VARIATIONS OF HUMAN-ANIMAL INTERACTIONS		One lecture
GUIDELINES AND STANDARDS ON THE INCLUSION OF ANIMALS IN AAT / AAA		One lecture
AAT / AAA QUALITY CONSIDERATIONS		2 lectures
AAT / AAA PLANNING, IMPLEMENTATION AND EVALUATION		One lecture
EXAMPLES OF GOOD PRACTICE IN AAS		

9.2. PRACTICAL WORK **Number of hours – 28**	Theoretical presentation of practical works	1 lab work (2 hours / work)
Standards for the training of animals and human-animal teams in the context of AAA / AAT.	Laboratory work / visits to animal assisted therapy centers / guests	2 lab
Use of AAA / AAT pre-evaluation forms.		2 lab
Instruments for measuring attitudes towards animals, empathy and attachment to animals.		2 lab
Scales for measuring the impact of animal-assisted interventions on humans.		1 lab
Methods of collecting behavioral data in AAA / AAT		2 lab
Presentation of AAA / AAT programs – part I		2 lab
Presentation of AAA / AAT programs – part II.		2 lab
Construction of AAA exercises for different categories of people		1 lab

Compulsory bibliography:

Lecture notes
Fine, A. H. (Ed.). (2010). Handbook on animal-assisted therapy: Theoretical foundations and guidelines for practice (3rd ed.). Elsevier Acaden
Serpell, J.A., Mccune, S., Gee, N.R., & Griffin, J.A. (2017). Current challenges to research on animal-assisted interventions. *Applied Developm* 3:223–233.
Pop, D.A., Rusu, A.S., Vancia-Pop, V., Papuc, I., Constantinescu, R., & Miresan, V. (2014). Physiological effects of human-animal positive interactions in dogs – Review of the literature. *Bulletin of Agricultural Sciences and Veterinary Medicine Cluj-Napoca - Animal Science and Biotechnologies, 71*:102-111. Doi: 10.15835/buasvmcn-asb:10398

Optional bibliography:

IAHAIO resources – www.iahaio.org
Family Dog Project: https://familydogproject.elte.hu/
ICofA – International Center of Anthrozoology: https://icofa-aai.com/
Pop, D., Rusu, A.S., & Mireşan, V. (2016). The development of a canine Para-Agility program: Positive affects in children with autism and in therapy dogs. *Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca Animal Science and Biotechnologies*,

73(1), 66-71.
Rusu, A.S. (2017). Constructing healthy experiences through human-animal interactions for autistic children and their families: Implications for research and education. In *Autism – Paradigms and Clinical Applications*. Ed. Janne Yip, InTech Publisher, ISBN 978-953-51-5013-8.

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant stakeholders in the corresponding field

The course has a similar content compared with other European universities courses and takes into account the level of preparation of students. The course provides information with applicability in professional training in the field of specialization, in accordance with the National Register of Qualifications in Higher Education (http://www.rncis.ro)

11. Assessment

Type of activity	11.1. Assessment criteria	11.2. Assessment methods	11.3. Percentage of the final grade
Lecture	Use of discipline-specific language and evidence-based bibliographic references; Ability to evaluate and plan a AAT / AAA program.	Exam	70%
Seminar/Laboratory	Making a poster or flyer / informative material to raise awareness of the benefits of positive human-animal interactions in the context of AAT / AAA.	Presentation of the project in a template indicated by the teacher.	30%
Minimum performance standards			
Knowledge 50% of the information contained in the course. Knowledge 50% of the information provided at practical work / seminar. 100% attendance at practical work / seminars is mandatory. Attendance at 50% courses is a condition for entering the exam. Learning scientific information and specialized language from the course and practical work at a medium level. Obtaining the final average for passing the checks on the way is a condition of passability.			

[1] Education levels- choose of the three options: Bachelor/ * Master/Ph.D.
[2] Discipline status (content)- for the undergraduate level, choose one of the options:- **FD** (fundamental discipline), **BD** (basic discipline), **CS** (specific disciplines-clinical sciences), **AP** (specific disciplines-animal production), **FH** (specific disciplines-food hygiene), **UO** (disciplines based on the university's options).
[3/] Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).
[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).
[5 / *] Disciplines: AK- Advanced knowledge, CT- Complementary Training, S- Synthesis

Filled in on

Course coordinator
Prof. Dr. Rusu Alina Simona

Laboratory work/seminar coordinator
Prof. Dr. Rusu Alina Simona

Approved by the Department on
.....

Head of the Department
Assoc. prof. Dr. Constantinescu Radu

Approved by the Faculty Council on
.....

Dean
Prof. Dr. Dezmirean S. Daniel

UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
Calea Mănăştur 3-5, 400372, Cluj-Napoca
Tel: 0264-596.384, Fax: 0264-593.792
www.usamvcluj.ro

No._____from _____ **USAMV form 0312020105**

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Animal Husbandry and Biotechnologies
1.3. Department	Technological Sciences – Animal Husbandry
1.4. Field of study	Animal Husbandry
1.5. Cycle of study[1]	Master
1.6. Specialization / Study programme	Ethology and Human-Animal Interaction
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	**Elements of Research Methodology, Data Analysis, Report Writing**
2.2. Course coordinator	Lecturer Mihai Șuteu, PhD
2.3. Seminar / laboratory / project coordinator	Lecturer Mihai Șuteu, PhD

3.1. Hours per week – full time programme	2	Out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	1
3.4. Total number of hours in the curriculum	24	Out of which: 3.5. lecture	12	3.6. seminar/laboratory	12
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes					15
3.4.2. Additional documenting in the library, specialized electronic platforms and field					32
3.4.3. Preparing seminars / laboratories / projects, subjects, reports, portfolios and essays					37
3.4.4. Tutorials					15
3.4.5. Examinations					2
3.4.6. Other activities					-
3.7. Total hours of individual study	97				
3.8. Total hours per semester	125				
3.9. Number of credits[4]	5				

2.4. Year of study	II	2.5. Semester	II	2.6. Type of evaluation	Periodical	2.7. Discipline status	Content[2]	DC
							Compulsoriness[3]	CD

3. Total estimated time (teaching hours per semester)

4. Prerequisites (is applicable)

4.1. curriculum-related	Not applicable
4.2. skills-related	Not applicable

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5. Conditions (if applicable)

5.1. for the lecture	This academic discipline requires compliance with the start and end of the session duration. The course is interactive, students can ask questions regarding the content. We do not allow any other activities during the lecture; mobile phones will be powered off.
5.2. for the seminar/ laboratory/ project	

6. Specific competences acquired

Professional competences	Students will gain competences specific to research methodology. This course will enable students to understand the elements of experimental design. The course will allow students to collect and analyse results of animal research experiments. Emphasis will also be put on scientific writing, from grant proposal to data dissemination and report writing. Good practices, based on international guidelines, will be presented for both animal research and scientific writing. The overall objective is to train students to use these competences in their professional and moral development.
Transversal competences	The students will gain knowledge and abilities required to understand, conceive, respect, and implement study designs in accordance with ethical codes and professional integrity, such as (but not limited to) the laws and regulations regarding animal safety or plagiarism.

7. Learning outcomes

7.1. Knowledge	The student/graduate comprehends the core principles of academic ethics and integrity, including plagiarism avoidance and responsible conduct in research. They have a solid understanding of research methodology fundamentals, such as designing studies, data collection techniques, statistical data analysis, and structuring scientific reports.
7.2. Skills	The student/graduate effectively applies ethical standards throughout academic work, ensuring originality and transparency. They are proficient in selecting and implementing appropriate research methods, accurately analyzing quantitative and qualitative data, and producing well-organized, clear, and scientifically sound reports and presentations.
7.3. Responsibility and autonomy	The student/graduate takes full responsibility for upholding ethical norms in all stages of academic and research activities. They demonstrate independent judgment and integrity by managing research projects autonomously, maintaining transparency in data handling, and ensuring compliance with institutional and international ethical guidelines.

8. Course objectives (based on the list of competences acquired)

8.1. Overall course objective	This course is intended to familiarize the student with experimental animal research. The course is compulsory for students of the first year.
8.2. Specific objectives	To understand the complexity of research domains and study types. To know the main databases that host the main flow of scientific literature and the various ways to search them. To know the elements of study design, bias minimization, hypothesis choosing. To understand the basics of data collection, analysis and statistical hypothesis testing. To know the rules of scientific writing. To know the laws and regulations regarding plagiarism.

9. Content

9.1. LECTURE **Number of hours – 12 hours**	Teaching method(s)	Notes (lecture = 1 hour)
Introduction. Presentation of the curricula, of the objectives and ways of working.	Lecture	1 lecture
Research project types	Lecture	1 lecture
Experimental study types, elements, and design	Lecture	3 lectures
Data analysis	Lecture	2 lectures
Dissemination of research results	Lecture	1 lecture

Scientific writing (grants, reports, papers, posters, presentations)	Lecture	2 lectures
Misconduct in animal research (research and publication ethics)	Lecture	1 lecture
Final evaluation	-	1 hour

9.2. PRACTICAL WORK **Number of hours – 12 hours**		1 lab work = 1 hour
Academic journals and specific databases (information sources and choosing journals for the dissemination of research results); science metrics	Theoretical presentation, practical work, and exercises	2 lab works
Scientific writing: document types and specificities		1 lab work
Scientific writing: style		1 lab work
Scientific writing: writing the different sections of a research paper		1 lab works
Scientific writing: citation in the text and drawing up the bibliographic lists		1 lab work
Reference management software		1 lab work
Microsoft Word functions indispensable for editing scientific materials		1 lab work
Review of a scientific text		1 lab work
Data analysis: data collection and cleaning		1 lab work
Data analysis: distributions, means, medians and analysis of variance		1 lab work
Data analysis: testing statistical significance		1 lab work

Compulsory bibliography:

Beauchamp T. L., D. DeGrazia, 2019, Principles of animal research ethics. Oxford University Press.
Blum S. D., 2009, Academic integrity and student plagiarism: A question of education, not ethics. The Chronicle of Higher Education, 55(24), A35.
Corlett J. A., 2009, Moral integrity and academic research. Journal of Academic Ethics, 7(1), 45-49.
Joubert P. H., Rogers S. M., 2015, Strategic Scientific and Medical Writing - the Road to Success. Springer-Verlag, Berlin.
Keeney P., 2017, Academic Ethics. Routledge.
Macfarlane B., Zhang J., Pun, A., 2014, Academic integrity: a review of the literature. Studies in Higher Education, 39(2), 339-358.
***Legea 8/1996 a drepturilor de autor și drepturilor conexe.
***Legea 43/2014 și normele de aplicare aprobate prin Ordinul nr. 97/2015 al Președintelui ANSVSA
***www.3rs-reduction.co.uk/

Optional bibliography:

Ardelean M., 2007, Metodologia elaborării tezelor de doctorat. Ed. AcademicPres, Cluj-Napoca.
Cighi V., 2008, Elemente de tehnică experimentală, Ed. Risoprint, Cluj-Napoca.
Cucu G. I., Maciuc V., Maciuc D., 2004, Cercetarea științifică și elemente de tehnică experimentală in zootehnie, Ed Alfa, Iași.
***Codul de etică și deontologie profesională USAMV (disponibil la: https://www.usamvcluj.ro/index.php/codul-de-etica)

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant employers in the corresponding field

The corroboration of the content was made following consultations with Medical Writing companies.

11. Assessment

Type of activity	11.1. Assessment criteria	11.2. Assessment methods	11.3. Percentage of the final grade
11.4. Lecture	Lecture attendance (>50%).	Project	50%

	Correct and comprehensive responses to periodic verification tests.	(study protocol)	
11.5. Seminary / Laboratory	Timely delivery of periodical work assignments related to the final project.		50%
11.6. Minimum performance standards			
Acquiring the information provided at the lecture and practical sessions at a level that allows passing the designated forms of verification.			

[1] Cycle of studies- choose of the three options: Bachelor/Master/Ph.D.

[2] Discipline status (content) - for the undergraduate level, choose one of the options: **FD** (fundamental discipline), **BD** (basic discipline), **CS** (specific disciplines-clinical sciences), **AP** (specific disciplines-animal production), **FH** (specific disciplines-food hygiene), **UO** (disciplines based on the university's options).

[3] Discipline status (compulsoriness) - choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).

[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

Filled in on

23 September 2025

Course coordinator
Lecturer Mihai Șuteu, PhD

....

Laboratory work/seminar coordinator
Lecturer Mihai Șuteu, PhD

....

Subject coordinator
Lecturer Mihai Șuteu, PhD

....

Approved by the Department on
24 September 2025

Head of the Department
Associate prof. Cristian O. Coroian, PhD

.....

Approved by the Faculty Council on
24 September 2025

Dean
Prof. Daniel S. Dezmirean, PhD

.....

UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
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www.usamvcluj.ro

No._____of _____ **USAMV form 0312020208**

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Animal Sciences and Biotechnologies
1.3. Department	Technological sciences
1.4. Field of study	Animal Science
1.5.Education level	Master
1.6.Specialization/ Study programme	Ethology and human-animal interaction
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	**Hobby farming**							
2.2. Course coordinator				Associate Professor Jurco Eugen Claudiu				
2.3. Seminar/ laboratory/ project coordinator				Associate Professor Jurco Eugen Claudiu				
2.4. Year of study	II	2.5. Semester	I	2.6. Type of evaluation	V	2.7. Discipline status	Content[2]	DCA
							Compulsoriness[3]	ED

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	2	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	1
3.4.Total number of hours in the curriculum	28	Out of which: 3.5.lecture	14	3.6.seminar/laboratory	14

Distribution of the time allotted	hours
3.4.1. Study based on book, textbook, bibliography and notes	15
3.4.2. Additional documentation in the library, specialized electronic platforms and field	15
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays	10
3.4.4.Tutorials	3
3.4.5.Examinations	2
3.4.6. Other activities	2

3.7. Total hours of individual study	47
3.8. Total hours per semester	75
3.9. Number of credits[4]	3

4. Prerequisites (is applicable)

4.1. curriculum-related	Not applicable
4.2. skills-related	The student is expected to possess knowledge of the different animal species raised for economic purposes, as well as of the main forage crops.

5. Conditions (if applicable)

5.1. for the lecture	Lecture notes

	Course presentation in pptx format: course Holder Logistic support: video projector, interactive whiteboard and PowerPoint presentations. Participation in a minimum of 50% of courses is a condition for participation in the exam.
5.2. for the laboratory	Laboratory notes Place of laboratory: laboratory room 43/ place of private partner sector During practical works, each student will develop an individual activity. Participation in 100% laboratory work is a condition for the exam participation.

6. Specific competences acquired

6.1 Professional competences	Students will know how to design and implement a farm on a small scale. Students will be able to apply sustainable practices and basic technologies in small-scale animal and plant production. Students will develop the ability to manage resources efficiently, ensuring animal welfare, crop health, and compliance with environmental and ethical standards.
6.2 Transversal competences	Students will demonstrate skills in providing consulting in the field Ability to work in a team. Use of specialised terminology in various contexts. Compliance with the principles of professional ethics.

7. Learning outcomes

7.1 Knowledge	The student/graduate demonstrates a solid understanding of the basic principles of small-scale farming, including the biology and management of different plant and animal species commonly raised as a hobby. They are familiar with fundamental methods of care, housing, and nutrition, as well as with the principles underlying species-appropriate welfare practices in hobby farming contexts.
7.2 Skills	The student/graduate applies practical techniques for the care and management of animals and crops in small-scale farming.
7.3 Responsibility and autonomy	The student/graduate assumes ethical responsibility in the management of small-scale farming activities. They contribute independently to the implementation of welfare measures across traditional, exotic, and hobby-based animal care settings, while promoting respectful and informed human–animal interactions.

8. Course objectives (based on the list of competences acquired)

8.1. Overall course objective	An advanced discipline that provides in-depth knowledge to support the development of understanding and practical skills related to hobby farming.
8.2. Specific objectives	Obtaining learning outcomes that aim in the formation of skills and abilities based on the correlation of the information received with those acquired in other disciplines such as Fundamental Skills for Anthrozoology, Animal behaviour and animal welfare, Measuring animal behaviour.

9. Content

9.1.LECTURE **Number of hours – 14**	Teaching methods	Notes
Introduction to Hobby Farming		1 lecture

Planning a Hobby Farm	Lecture	1 lecture
Animal Species and Breeds 1		1 lecture
Animal Species and Breeds 2		1 lecture
Animal Species and Breeds 3		1 lecture
Plant Species and Forage Crops 1		1 lecture
Plant Species and Forage Crops 2		1 lecture
Animal housing on pasture		1 lecture
Animal housing on stable		1 lecture
Storage and preservation of fodder		1 lecture
Practical Farm Management		2 lectures
Evaluating profitability		1 lecture
Assessment of Students		1 lecture

9.2. PRACTICAL WORK **Number of hours – 14**		
Benefits and challenges of small-scale farming	Practical applications	1 Practical work
Types of animals suitable for hobby farms		2 Practical works
Types of plants suitable for hobby farms		1 Practical work
Basic farm design principles		1 Practical work
Animal selection criteria based on purpose, space, and available resources		1 Practical work
Species-appropriate care		1 Practical work
Fencing, shelters, and storage facilities		1 Practical work
Hygiene and biosecurity protocols		1 Practical work
Case study 1		1 Practical work
Case study 2		1 Practical work
Case study 3		1 Practical work
Basic budgeting and cost management		1 Practical work
Assessment of Students		1 Practical work
Compulsory bibliography: - ***Course notes***		

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant stakeholders in the corresponding field

The course has a similar content compared with other European universities courses and takes into account the level of preparation of students.
The course is important / fundamental for the development of working skills as future specialists in the graduated field.

11. Assessment

Type of activity	Assessment criteria	Assessment methods	Percentage of the final grade
11.1. Lecture	Level of knowledge	Continuous assessment	60%
11.2. Laboratory	Quality of presentation	Presentation of a small-scale farm plan	40%
11.3. Minimum performance standards Knowledge 50% of the information contained in the course.			

Knowledge 50% of the information provided at practical work. 100% attendance at practical works is mandatory. Attendance at 50% courses is a condition for entering the exam.

[1] Education levels- choose of the three options: Bachelor/Master/Ph.D.

[2] Discipline status (content)- for the undergraduate level, choose one of the options: **FD** (fundamental discipline), **DD** (domain discipline), **SD** (specialty discipline), **CD** (complementary discipline).

Discipline status (content)- for the master level, choose one of the options: **DA** (in-depth discipline), **DCA** (advanced knowledge discipline), **DPC** (complementary preparation discipline), **DS** (synthesis discipline – options depending on the domain).

[3] Discipline status (compulsoriness)- choose one of the options: **CoD** (compulsory discipline), **OD** (optional discipline), **ED** (elective discipline).

[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

Filled in on 23.09.2025

Course coordinator
Associate Professor Jurco Eugen Claudiu

Laboratory work/seminar coordinator
Associate Professor Jurco Eugen Claudiu

Subject coordinator
Associate Professor Jurco Eugen Claudiu

Approved by the Department on 24.09.2025

Head of the Department
Associate Professor Cristian Coroian

Approved by the Faculty Council on 24.09.2025

Dean
Prof.eng. Dan Dezmirean

No._____of _____ USAMV form **0312020209**

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Animal Science and Biotechnology
1.3. Department	I-Fundamental Sciences-Biotechnology
1.4. Field of study	Ethology
1.5. Education level[1)]	Master
1.6. Specialization/ Study programme	Ethology and human-animal interactions
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	Behavioural genetics							
2.2. Course coordinator				Lecturer. Dr. Bogdan A. Vlaic				
2.3. Seminar/ laboratory/ project coordinator				Lecturer. Dr. Bogdan A. Vlaic				
2.4. Year of study	II	2.5. Semester	**I**	2.6. Type of evaluation	Sumative	2.7. Discipline status	Content[2]	DS
							Compulsoriness[3]	DS

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	3	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	1
3.4.Total number of hours in the curriculum	28	Out of which: 3.5.lecture	14	3.6. seminar/laboratory	14
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes					10
3.4.2. Additional documentation in the library, specialized electronic platforms and field					10
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					10
3.4.4.Tutorials					10
3.4.5.Examinations					7
3.4.6. Other activities					
3.7. Total hours of individual study	47				
3.8. Total hours per semester	75				
3.9. Number of credits[4]	3				

4. Prerequisites (is applicable)

4.1. curriculum-related	Genetics, Genomics,
4.2. skills-related	No

5. Conditions (if applicable)

5.1. for the lecture	Teaching manuals: R. Plomin, 2013,Behavioural genetics, Worth Publishers, ISBN-13: 978-1 -4292-4215-8 Lecture notes:Course notes Course presentation in pptx format: **Bogdan Vlaic** Logistic support: video projector, interactive whiteboard and PowerPoint presentations. Participation in a minimum of 50% of courses is a condition for participation in the exam.
5.2. for the seminar/ laboratory/ project	Teaching manuals: Seminar notes: Place of laboratory: laboratory room Laboratory equipment: video projector, laptop Participation in 100% laboratory/seminar work is a condition for the exam participation.

6. Specific competences acquired

Professional competences	The formation of theoretical and practical skills by correlating the information received with those acquired in the disciplines Animal behaviour, Animal welfare, Genetics. 2) The training of specialists in the field of Ethology who have the ability to follow master programs in the field of Ethology with orientation towards theoretical and applicative aspects 3) Learning outcomes which allow the formation of skills and practical skills in dynamics of the field Ethology and human-animal interaction
Transversal competences	1) The use of theoretical aspects learned in solving practical problems. 2) Developing the capacities to use the information received within other disciplines (Animal behaviour, Animal welfare, Genetics). 3) Ability to work in a team. 4) Use of specialised terminology in various contexts. 5) Compliance with the principles of professional ethics.

7. Learning outcomes

7.1 Knowledge	The student/graduate has an integrated understanding of the genetic basis of behaviour. They are familiar with how biological and genetic factors influence behaviour, the role of heritability, gene–environment interactions, and epigenetic mechanisms in shaping behaviour
7.2 Skills	The student/graduate identifies genetic and statistical tools to study behavioural traits (heritability estimates, correlation analyses, genomic databases).
7.3 Responsibility and autonomy	The student/graduate takes responsibility for accurate data collection, analysis, and interpretation in behavioural genetics research.

8. Course objectives (based on the list of competences acquired)

8.1. Overall course objective	Fundamental discipline of advanced knowledge that allows the development of knowledge regarding animal behavior, behavioral categories, of the evolution of animal behaviors Together with the other disciplines in the curriculum, it ensures the implementation and formation of complex concepts on behavioural genetics.
8.2. Specific objectives	Obtaining learning outcomes that aim in the formation of skills and abilities based on the correlation of the information received with those acquired in other disciplines such as Animal behaviour, Animal welfare and Genetics

9. Content

9.1.LECTURE **Number of hours – 14**	Teaching methods	Notes
1. Behavioral genetics and animal science	Lecture	1 lectures
2. Behavioral genetics and animal domestication	Lecture	1 lectures
3. Behavioural aspects of conservation breeding	Lecture	1 lectures
4. Interactions between animal emotions, cognition, and personality	Lecture	1 lectures
5. Genetics and behavior during handling, restraint, and herding	Lecture	1 lectures

6. Reproductive and maternal behavior of livestock	Lecture	1 lectures
7. Differences in the behavior of dogs	Lecture	1 lectures
8. Behavior genetics of the horse	Lecture	1 lectures
9. Improving the adaptability of animals by selection	Lecture	1 lectures
10. Genetic influences on the behavior of chickens associated with welfare and productivity	Lecture	1 lectures
11. Genetics of domesticated behavior in dogs and foxes	Lecture	1 lectures
12. Behavioral genetics in pigs	Lecture	1 lectures
13. Genetics and animal welfare	Lecture	1 lectures
14. Behavioral genetics in cattle	Lecture	1 lectures

9.2. SEMINARS **Number of hours – 28**		
1. Arriving	documentary movies and discussions	2 practical work
2. Growing up		2 practical work
3. Finding food		2 practical work
4. Hunting and escaping		2 practical works
5. Finding the way		2 practical works
6. Home making		2 practical work
7. Living togheter		2 practical work
8. Fighting		2 practical work
9. Friends and rivals		2 practical work
10. Talking to strangers		2 practical work
11. Courting		2 practical work
12. Continuing the line		2 practical work
13. Sexual selection		2 practical work
14. Colloquium		2 practical work

Compulsory bibliography:

1. Yong-Kyu Kim - Handbook of behavior genetics , Springer, ISBN 978-0-387-76726-0 e-ISBN 978-0-387-76727-74
2. John Alcock – Animal behavior; Sinauer Associates Inc. Sunderland, 2001
3. David Attembrough Trials of Life. Ep.1-12
4. BBC-Supersenses. Ep.1-6

Supplementary bibliography:

1. Archana Ruhela Malini Sinha Recent Trends in Animal Behaviour Oxford Book Company,2010

10. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant stakeholders in the corresponding field

The course has a similar content compared with other European universities courses and takes into account the level of

preparation of students. The course is fundamental for the development of working skills as future specialists in the graduated field.

11. Assessment

Type of activity	11.1. Assessment criteria	11.2. Assessment methods	11.3. Percentage of the final grade
11.4. Lecture	Assimilation of notions and deepening of specialized knowledge, ability to synthesize	Written examination	70%
11.5. Seminar/Laboratory	Thematic report on a given theme	Power point presentation	30 %
11.6. Minimum performance standards			
Knowledge 50% of the information contained in the course. Knowledge 50% of the information provided at practical work / seminar. 100% attendance at practical work / seminars is mandatory. Attendance at 50% courses is a condition for entering the exam			

[1] Education levels- choose of the three options: Bachelor/ * Master/Ph.D.
[2] Discipline status (content)- for the undergraduate level, choose one of the options:- **FD** (fundamental discipline), **BD** (basic discipline), **CS** (specific disciplines-clinical sciences), **AP** (specific disciplines-animal production), **FH** (specific disciplines-food hygiene), **UO** (disciplines based on the university's options).
[3/] Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).
[4] One credit is equivalent to 25-30 hours of study (teaching activities and individual study).
[5 / *] Disciplines: AK- Advanced knowledge, CT- Complementary Training, S- Synthesis

Filled in on
6.09.2023

Course coordinator
Lecturer Bogdan Vlaic

Laboratory work/seminar coordinator
Lecturer Bogdan Vlaic

Subject coordinator
.....

Approved by the
Department on
.13.09.2024

Head of the Department
Conf. Radu Constantinescu, PhD

Approved by the Faculty
Council on
.27.09.2024

Dean
Prof. Dezmirean S.Daniel, PhD

UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
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No._____of _____ **USAMV form 0313030214**

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoc
1.2. Faculty	Animal Science and Biotechnology
1.3. Department	II-Technological Sciences
1.4. Field of study	Animal Science
1.5.Education level	Bachelor
1.6.Specialization/ Study programme	Animal behaviour and welfare
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	**Animal grooming**							
2.2. Course coordinator				Lecturer Dr. Teodor Florian Stroe				
2.3. Seminar/ laboratory/ project coordinator				Lecturer Dr. Teodor Florian Stroe				
2.4. Year of study	3	2.5. Semester	**2**	2.6. Type of evaluation	continuous	2.7. Discipline status	Content[2]	FD
							Compulsoriness[3]	OD

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	3	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	2
3.4.Total number of hours in the curriculum	42	Out of which: 3.5.lecture	14	3.6.seminar/laboratory	28
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes					8
3.4.2. Additional documentation in the library, specialized electronic platforms and field					8
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					5
3.4.4.Tutorials					6
3.4.5.Examinations					6
3.4.6. Other activities					
3.7. Total hours of individual study	33				
3.8. Total hours per semester	75				
3.9. Number of credits[4]	3				

4. Prerequisites (is applicable)

4.1. curriculum-related	
4.2. skills-related	No

5. Conditions (if applicable)

5.1. for the lecture	The course is interactive, students can ask questions regarding the content of lecture. Academic discipline requires compliance with the start and end of the

	course. We do not allow any other activities during the lecture, mobile phones will be turned off.
5.2. for the seminar/ laboratory/ project	During practical works, each student will develop an individual activity with laboratory materials (made available in the book that describes the laboratory work). Academic discipline is imposed throughout the course of practical works.

6. Specific competences acquired

Professional competence	Give the opportunity to see the differences in grooming styles. Achievement of information on the breeds and coat types animals, pre-grooming and general care and detailed step-by-step grooming and clipping techniques
Transversal competences	- Developing and following a work schedule - Applying effective communication techniques in activities that require team work - Fulfill their duties with professionalism and rigor - Use of information and communication techniques

7. Course objectives (based on the list of competences acquired)

7.1. Overall course objective	The possibility to choose the right grooming style
7.2. Specific objectives	Knowledge about breeds, coats, handle and care

8. Content

8.1.LECTURE **Number of hours –14**	Teaching methods	Notes
1. Breed groups (pets and farm animals)	Lecture	2 lectures
2. Coat types		2 lectures
3. Grooming equipment		2 lectures
4. Pre-grooming activities		2 lectures
5. Preparation before grooming		2 lectures
6. Animal handling		2 lectures
7. Care products		2 lectures

8.2. PRACTICAL WORK **Number of hours – 28**		
1. Grooming tables and work tools	Teoretical presentation of practical works	1 lab work
2. Tools maintenance		1 lab work
3. Structure and functions of the skin		3lab work
4. Skin glands and formation of hair		1 lab work
5. Checking the health status		1 lab work
6. Pre-grooming activities (pets and farm animals)		1 lab work
7. Bathing and drying		1 lab work
8. Breed profiles and trimming diagrams		3 lab work
9. First aid in case of accidents		1 lab work
10. Aggression, Stress reduction and bite avoidance		1 lab work

Compulsory bibliography:		
Optional bibliography:		

9. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant stakeholders in the corresponding field

10. Assessment

Type of activity	10.1. Assessment criteria	10.2. Assessment methods	10.3. Percentage of the final grade
10.4. Lecture	Assimilation of notions and deepening of specialized knowledge, ability to synthesize	Written examination	70%
10.5. Seminar/Laboratory	Thematic report on a given theme	Power point presentation	30 %
10.6. Minimum performance standards			
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Filled in on
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Course coordinator
Lecturer Dr. Teodor Florian Stroe

Laboratory work/seminar coordinator
Lecturer Dr. Teodor Florian Stroe

Subject coordinator
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Approved by the Department on
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Head of the Department
Assoc prof. Dr. Constantinescu Radu

Approved by the Faculty Council on
.....

Dean
Prof. Daniel Dezmirean