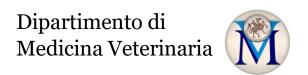


General information			
Academic subject	Veterinary Ethology Module of the course: Physiology 1		
Degree course	Veterinary Medicine (LM42)		
Academic Year	2021/2022		
European Credit Transfer	and Accumulation System (ECTS) 4		
Language	Italian		
Academic calendar (starting and ending date) I bimester			
Attendance	Mandatory		

Professor/ Lecturer		
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Telephone	080 5443947	
Department and address	Veterinary Medicine Campus – Valenzano (BA)	
Virtual headquarters	2p54i8q	
Tutoring (time and day)	Tuesday- Thursday 10.00-12.00 am	
	Monday and Wednesday 3.00-5.00 pm	
	At the Department or via Teams	

Syllabus	
Learning Objectives	The course aims at transferring technical and in-depth knowledge about the physiological bases of behavior and on different aspects of the ethology of the species of veterinary interest.
Course prerequisites	The student must have taken and passed the exam of Biochemistry 2 and Anatomy 2 having thus acquired skills in the field of molecular biology, veterinary clinical biochemistry and anatomy of the organs of the various systems of domestic animals.
Contents	FUNDAMETAL CONCEPTS OF ETHOLOGY Descriptive ethology. Experimental ethology. The sectors of ethology. Spontaneous components of behavior. Motivational systems. Pulses. Key stimuli and triggering signals. Ontogenesis of behavior. Maturation of behavioral modules. Measuring behavior: the ethogram. PHYSIOLOGY OF BEHAVIOR: Nervous system and behavior. Neurotransmitters and behavioral response. Neural substrates at the base of fear, anxiety and aggression. Hormones and behavior. Control of circadian rhythms. LEARNING: Predisposition to learn. Habituation and associative behavior. Latent learning. Instrumental learning. Imprinting. Insight. Memories and cognitive maps. Animal intelligence, emotions and cognitive processes. Theory of the mind. SOCIAL BEHAVIOR: Social behavior and communication in domestic animals. Regulation of food intake and eating behavior. Reproductive and maternal behavior. Sexual behavior. The game. Calm signals. Behavioral disturbances. Stress. Anxiety, fear and phobias. Aggression. APPLIED ETHOLOGY: Basic behavior modification techniques. Reinforcement. Differential reinforcement. Flooding. Systematic desensitization. Attention check. Conditioning. Counterconditioning. Chaining. Shaping





Books and bibliography	Per Jensen: Etologia degli animali domestici. McGraw-Hill - 2011.
Additional materials	Lecture notes are recommended

Work schedule				
Total	Lectures		Hands on (Laboratory, working groups, seminars,	Out-of-class study
10.00	Lectures		field trips)	hours/ Self-study
				hours
Hours				
100	30		25 (Practical lessons will be repeated for limited	45
			group of students, on the bases of the total	
			number of students)	
ECTS				
4	3	1	1	
Teaching strategy	1		will take place in the classroom, using the support of a	projector, and will be
			ed as PowerPoint slideshow.	
			ctical lessons will take place at the Labdog laborate	
			Physiology and Behaviour of the Department of Veterioservation of animal behaviour.	nary Medicine for the
		direct of	oservation of animal behaviour.	
Expected learning	goutcomes			
Knowledge and u		0	Basic knowledge related to physiological basis of beha	vior
on:	J	0	Basic knowledge of the different aspects of the etho	
			veterinary interest	
Applying knowledge and understanding on:		0	1.4 Communicate effectively with clients, the	public, professional
		colleagues and responsible authorities, using language appropriate to the		
			audience concerned and in full respect of confidential	
		0	1.6 Work effectively as a member of a multi-disc	ciplinary team in the
			delivery of services.	
		0	1.8 Be able to review and evaluate literature and press	•
		0	1.9 Understand and apply principles of clinical gove evidence-based veterinary medicine.	ernance, and practise
		0	1.13 Demonstrate an ability of lifelong learning as	nd a commitment to
			learning and professional development. This inc	
			reflecting on professional experience and taking r	_
			performance and competence.	•
		0	1.16 Handle and restrain animal patients safely and	d with respect of the
			animal, and instruct others in helping the vetering	narian perform these
			techniques.	
		0	1.20 Assess the physical condition, welfare and nu	
			animal or group of animals and advise the client on p	rinciples of husbandry
			and feeding.	
		0	1.31 Assess and manage pain1.36 Advise on, and implement, preventive and era	dication programmos
		0	appropriate to the species and in line with accepted	
			and public health standards.	aar nearth, wendle
Soft skills		Mai	king informed judgments and choices	
			 At the end of the course, students must be able t 	o evaluate the correct
			behavior of pets and to express his opinion a	
			factors affecting their expression	
			o Students are also expected to acquire the follo	wing soft skills: Must



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	also acquire the following cross-cutting competence: 2.3 The structure, function and behaviour of animals and their physiological and welfare needs.
•	Communicating knowledge and understanding
	 Students must acquire the correct scientific skills and technical language to provide specialist professional support.
	 Students are also expected to acquire the following soft skills: 2.1 Understanding of, and competence in, the logical approaches to both scientific and clinical reasoning, the distinction between the two, and the strengths and limitations of each.
•	Capacities to continue learning
	 Students must acquire the ability to improve their knowledge independently through further studies by reading specialized texts and scientific literature, as well as through courses and by the direct observation of animals.
	 Students are also expected to acquire the following soft skills: 2.2 Research methods, the contribution of basic and applied research to veterinary science and implementation of 3Rs (Replacement, Reduction, Refinement).

Assessment and feedback	
Methods of assessment	Oral exam. Students must demonstrate technical and in-depth knowledge of several
	topics of the course program, using scientific terminology and showing critical skills
	in analysing the behaviour of domestic animal.
Evaluation criteria	in analysing the behaviour of domestic animal. * Knowledge and understanding Students are expected to organize the knowledge of the basic and fundamental concepts of the program course and show the ability to analyse the features and causes of the behavior of domestic animals * Applying knowledge and understanding Students are expected to acquire the ability of effectively approach the behavior of the pet and the client, in order to formulate a correct diagnosis and chose an adequate therapeutic plan. Practical application of theoretical concepts by examining practical cases. * Autonomy of judgment Students are expected to propose critical hypotheses on the causes and factors affecting the behavior of domestic animals * Communicating knowledge and understanding Students are expected to critically and independently discuss the issues addressed in the course program Students are expected to make connections between the different topics of the course program * Communication skills Students are expected to discuss the program topics with appropriate scientific and technical language * Capacities to continue learning Students are expected to show the ability to improve their knowledge
	independently through the reading of specialized texts and scientific
	literature.
Criteria for assessment and	The assessment of students' knowledge will be carried out through an oral
attribution of the final mark	interview. The final mark is expressed in thirtieths. The minimal final mark to pass



	the exam is 18/30. The final exam of the "Veterinary Ethology" module contributes to the definition of the final mark of the "Physiology 1" exam for 4/10.
Additional information	