ZOO MEDICINE

1	Course Title:	ZOO MEDICINE
2	Course Code:	VİH 6012
3	Type of Course:	Optional
4	Level of Course:	Third Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	1.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	-
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç. Dr. HÜSEYİN CİHAN
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	hcihan@uludag.edu.tr +90-224-2940813 Uludağ Üniversitesi Veteriner Fakültesi Hayvan Hastanesi, İç Hastalıkları Anabilim Dalı, Görükle Kampüsü, 16059, Görükle/BURSA
17	Website:	
18	Objective of the Course:	The aim of this course is specifically designed to acquaint the student with the most common zoo animals, their husbandry, restraint, examination, sampling techniques, diagnosing- treatment procedures, and drug administration techniques.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	To be able to approach the animals capt in zoos and can handle them in an appropriate way
	2	To be able to associate management and feeding with clinical signs in wild animals
	3	To be able to learn and interpret the important diseases of wild animals capt in zoos
	4	To be able to diagnose the indicated diseases with their analyzing ability
	5	To be able to apply diagnosis and treatment efficiently
	6	To be able to use the right medications for the treatments
	7	To be able to get prophylactic approaches to avoid from the diseases
	8	To be able to manage the care and feeding of the exotic animals
	9	
	10	
21	Course Content:	

Course Content:

Week	Theoretical	Practice

1	Goals of Zoo and Wildlife Medicine	Physical and chemical restraint and clinical and diagnostic techniques of raptors
2	Constitutional necessities for living of the animals in the zoo	Sample collection in raptors, faecal examination, crop swaps, haematological and biochemical examinations
3	Precaution which were taken in transporting of the zoo animals	Medication techniques in raptors, therapeutic agents and their effects
4	To interpret interrelationships between population dynamics and the body mechanism in wildlife.	Emergency techniques in raptors
5	Population management in zoo medicine	Basic and practical work on the most common infectious and non-infectious diseases in raptors
6	Rehabilitation in the zoo	Husbandry and hand feeding during hospitalisation in raptors
7	Infectious disease in the zoo	Physical and chemical restraint, clinical and diagnostic techniques of reptiles
8	Zoonotic diseases in the zoo	Sample collection in reptiles, faecal examination, skin scrapings, haematological and biochemical examinations
9	Important diseases of reptiles	Medication techniques in reptiles, therapeutic agents and their effects
10	Important diseases of the wild ruminants	Husbandry and hand feeding during hospitalisation in reptiles
11	Important diseases of the wild carnivores.	Physical and chemical restraint, clinical and diagnostic techniques of wild ruminants, drug administration routes and techniques
12	Important diseases of the raptors.	Sample collection in wild ruminants, faecal examination, crop swaps, haematological and biochemical examinations
13	Important diseases of the aquarium animals	Physical and chemical restraint, clinical and diagnostic techniques of wild carnivores, drug administration routes and techniques
14	Some practical activities in zoo medicine	Sample collection in wild carnivores, faecal examination, crop swaps, haematological and biochemical examinations

22	Textbooks, References and/or Other Materials:	1.Murray E. Fowler, R. Eric Miller. Zoo and Wild Animal Medicine, 6ed, Sounders, Elsevier Inc., Philadelphia, USA, 2008 2.Exotic Animal Care and Management, Kathy Nuttall, Vicki Judah, CENGAGE Delmar Learning, 2008 3.Gary West, Darryl Heard, Nigel Caulkett. Zoo Animal and Wildlife Immobilization and Anesthesia, Blackwell Publishing, Ames, Iowa, USA, 2007 4.Douglas R. Mader. Reptile Medicine and Surgery, 2e, Elsevier Inc, Philadelphia, USA, 2006 5.Elizabeth S. Williams, Ian K. Barker. Infectious Diseases of Wild Mammals, Third Edition, Iowa State University Press, Ames, Iowa, USA, 2001 6.Thomas N. Tully Jr., Gerry M. Dorrestein, Martin Lawton. Handbook of Avian Medicine, Sounders Comp., Philadelphia, USA, 2000
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	0	0.00
Quiz	0	0.00
Home work-project	7	0.00
Final Exam	1	100.00
Total	8	100.00
Contribution of Term (Year) Learning Activities to Success Grade		0.00
Contribution of Final Exam to Success Grade		100.00

Total	100.00
Measurement and Evaluation Techniques Used in the Course	

24 ECTS / WORK LOAD TABLE

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	1.00	14.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	3.00	42.00
Homeworks	7	2.00	14.00
Projects	0	0.00	0.00
Field Studies	10	3.00	30.00
Midterm exams	0	0.00	0.00
Others	10	2.00	20.00
Final Exams	1	2.00	2.00
Total Work Load			150.00
Total work load/ 30 hr			5.00
ECTS Credit of the Course			5.00

25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS

	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	2	4	4	3	3	4	3	3	3	2	2	4	0	0	0	0
ÖK2	4	4	5	4	4	3	4	4	5	3	3	5	0	0	0	0
ÖK3	5	4	4	5	4	4	4	5	5	3	3	5	0	0	0	0
ÖK4	5	5	5	5	4	4	4	5	5	3	3	4	0	0	0	0
ÖK5	4	4	4	4	4	4	3	4	4	3	3	5	0	0	0	0
ÖK6	3	4	4	4	4	4	3	4	3	3	3	5	0	0	0	0
ÖK7	5	5	5	5	5	5	4	5	4	3	3	4	0	0	0	0
ÖK8	3	4	4	2	3	3	4	5	4	3	3	4	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High