LABORATORY ANIMAL HUSBANDRY									
1	Course Title:								
2	Course Code:	VET250							
3	Type of Course:	Optional							
4	Level of Course:	First Cycle							
5	Year of Study:	2							
6	Semester:	3							
7	ECTS Credits Allocated:	3.00							
8	Theoretical (hour/week):	1.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	-							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Prof. Dr.	Serdal Dikmen						
15	Course Lecturers:	-							
16	Contact information of the Course Coordinator:	serdal@uludag.edu.tr, 0224-2941355, Faulcuty of Veterinary Medicine, Uludag University Bursa-Turkey							
17	Website:								
18	Objective of the Course:	To educate students to become qualified in the field of breeding of mostly used laboratory animals on tests; laboratory mice, laboratory rat, rabbit, guinea pig, hamster and gerbil.							
19	Contribution of the Course to Professional Development:	Learns different laboratory animal species and their management conditions							
20	Learning Outcomes:								
		1	Learns importance of laboratory animal breeding, usage of laboratory animals for test according to the bio-ethic rules						
		2	Learns factors those are affecting laboratory animal breeding and housing conditions						
		3	Knows laboratory mice, laboratory rat, rabbit, guinea pig, hamster and gerbil breeding						
		4	Learns laboratory rat breeding						
		5	5 Learns rabbit breeding						
		6	Learns guinea pig breeding						
		7	Learns hamster breeding						
		8	2.3 The structure, function and behaviour of animals and their physiological and welfare needs.						
		9	Learns issues related to animal using for research purposes						
		10	2.2 Research methods, the contribution of basic and applied research to veterinary science and implementation of 3Rs (Replacement, Reduction, Refinement).						
21	Course Content:								
		Co	ourse Content:						
Week	Theoretical		Practice						
1	Introduction, importance of laborator breeding	y animal							

2	Bio-ethic rules of animal usage testin arrangement about laboratory animal						
3	Standardization and description of ar genetical and microbiological sides	imals in					
4	Housing design and equipments, the condition, lighting, ventilation and inter of animal-animal and animal-human						
5	Inside conditions of shelter and produce hygiene	uction					
6	Laboratory animal selection, applicati before testing, preparing usage of lab animals						
7	Methods of laboratory animal breedir mating systems	ig and					
8	Laboratory mouse breeding; position mouse in zoological system, anatomi physiological and genetical character mouse, flock management and feedin behaviours and usage conditions	cal, istic of					
9	Rat breeding; position of rat in zoolog system, anatomical, physiological an genetical characteristic of rat, flock management and feeding, behaviour usage conditions	d					
	Gerbil breeding; position of gerbil in zoological system, anatomical, physic and genetical characteristic of gerbil,						
Activit	es		Number	Duration (hour)	Total Work Load (hour)		
	and genetical characteristic of hamst		14	1.00	14.00		
	als/Labs	<u>e and</u>	0	0.00	0.00		
Sel12stu	But metappies bratiding; position of guin	ea pig in	10	6.00	60.00		
Homew	vorks		0	0.00	0.00		
Project	flock management and feeding, beha	viours	0	0.00			
Field St			0	0.00			
Midtern	zeological system, anatomical, physic	ological	1	5.00	5.00		
Others							
			1	5.00	5.00		
	Watagement and records, benaviour	<del>5 ana</del>	1	5.00 5.00	5.00 5.00		
Final E Total W	ଏଞ୍ଚିଥିକ୍ରିକ conditions /ork Load		•				
Final E Total W	ଏଞ୍ଚିଥିକ୍ରିକ conditions /ork Load		•		5.00		
Final E Total W Total w ECTS 0	GSBge conditions /ork Load management and teeding, behaviour lusade conditions Credit of the Course			5.00	5.00 89.00 2.97 3.00		
Final E Total W Total w ECTS 0 <b>22</b>	ASABE conditions /ork Load management and feeding, behaviour Disade conditions		•	5.00 arı Bilimi, Poyraz O. nd Use of Laborator H. Ankara, 1999. cory Animal Manage	5.00 89.00 2.97 3.00 Ankara, 2000. y Animals, ment and		
Final E Total W Total w ECTS ( <b>22</b>	WBBge conditions /ork Load management and feeding, behaviour lusade conditions Credit of the Course  Textbooks, References and/or Other		1 1.Laboratuvar Hayvanla 2. Guide for the Care ar NRC, 2011. 3. Tavşan, Vatansever 4. Handbook of Laborat	5.00 arı Bilimi, Poyraz O. nd Use of Laborator H. Ankara, 1999. cory Animal Manage	5.00 89.00 2.97 3.00 Ankara, 2000. y Animals, ment and		
Final E Total W Total w ECTS 0 22 23	Version of the Course and/or Other Materials:		1 1.Laboratuvar Hayvanla 2. Guide for the Care ar NRC, 2011. 3. Tavşan, Vatansever 4. Handbook of Laborat	5.00 arı Bilimi, Poyraz O. nd Use of Laborator H. Ankara, 1999. cory Animal Manage	5.00 89.00 2.97 3.00 Ankara, 2000. y Animals, ment and		
Final E Total W Total w ECTS 0 22 23	Assesment Assesment Assesment Credit of the Course Assesment <b>EARNING ACTIVITIES</b>	s and	1 1.Laboratuvar Hayvanla 2. Guide for the Care ar NRC, 2011. 3. Tavşan, Vatansever I 4. Handbook of Laborat Welfare, Sarah Wolfens	5.00 arı Bilimi, Poyraz O. nd Use of Laborator H. Ankara, 1999. cory Animal Manage	5.00 89.00 2.97 3.00 Ankara, 2000. y Animals, ment and		
Final E Total W ECTS C 22 23 TERM L	Assesment Assesment Assesment Credit of the Course Assesment <b>EARNING ACTIVITIES</b>	s and NUMBE R	1.Laboratuvar Hayvanla 2. Guide for the Care ar NRC, 2011. 3. Tavşan, Vatansever 4. Handbook of Laborat Welfare, Sarah Wolfens	5.00 arı Bilimi, Poyraz O. nd Use of Laborator H. Ankara, 1999. cory Animal Manage	5.00 89.00 2.97 3.00 Ankara, 2000. y Animals, ment and		
Final E Total W Total w ECTS C 22 23 TERM L Midterm Quiz	Assesment Assesment Assesment Credit of the Course Assesment <b>EARNING ACTIVITIES</b>	s and NUMBE R 1	1.Laboratuvar Hayvanla 2. Guide for the Care ar NRC, 2011. 3. Tavşan, Vatansever I 4. Handbook of Laborat Welfare, Sarah Wolfens WEIGHT 40.00	5.00 arı Bilimi, Poyraz O. nd Use of Laborator H. Ankara, 1999. cory Animal Manage	5.00 89.00 2.97 3.00 Ankara, 2000. y Animals, ment and		
Final E Total W Total w ECTS C 22 23 TERM L Midterm Quiz	Assesment <b>EARNING ACTIVITIES</b> work-project	s and NUMBE R 1 0	1 1.Laboratuvar Hayvanla 2. Guide for the Care ar NRC, 2011. 3. Tavşan, Vatansever I 4. Handbook of Laborat Welfare, Sarah Wolfens WEIGHT 40.00 0.00	5.00 arı Bilimi, Poyraz O. nd Use of Laborator H. Ankara, 1999. cory Animal Manage	5.00 89.00 2.97 3.00 Ankara, 2000. y Animals, ment and		

Measurement and Evaluation Techniques Used in the Course	Written exam
Total	100.00
Contribution of Final Exam to Success Grade	60.00
Contribution of Term (Year) Learning Activities to Success Grade	40.00

## 24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4	5	1	1	4	4	1	5	1	1	3	3	0	0	0	0
ÖK2	4	5	1	1	4	4	1	5	1	1	3	3	0	0	0	0
ÖK3	4	5	1	1	4	4	1	5	1	1	3	3	0	0	0	0
ÖK4	4	5	1	1	4	4	1	5	1	1	3	3	0	0	0	0
ÖK5	4	5	1	1	4	4	1	5	1	1	3	3	0	0	0	0
ÖK6	4	5	1	1	4	4	1	5	1	1	3	3	0	0	0	0
ÖK7	4	5	1	1	4	4	1	5	1	1	3	3	0	0	0	0
ÖK8	4	5	1	1	4	4	1	5	1	1	3	3	0	0	0	0
ÖK9	4	5	1	1	4	4	1	5	1	1	3	3	0	0	0	0
ÖK10	2	2	3	4	3	0	1	2	3	2	2	4	0	0	0	0
		l	-0: L	earr	ning C	bjec	tive	s P	Q: P	rogra	im Qu	alifica	tions	; ;		
Contrib 1 very low ution Level:				2 Iow		3 Medium			4 High			5 Very High				