BASIC INFORMATION ON LABORATORY ANIMALS AND INTERVENTIONAL METHODS

1	Course Title:	BASIC INFORMATION ON LABORATORY ANIMALS AND INTERVENTIONAL METHODS
2	Course Code:	VFZ6022
3	Type of Course:	Optional
4	Level of Course:	Third Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	1.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Dr. Ögr. Üyesi Füsun AK SONAT
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	fusunak@uludag.edu.tr +90 224 294 1229 Uludağ Üniv. Veteriner Fak. Fizyoloji Anabilim Dalı Bursa Turkey 16059
17	Website:	http://www.veteriner.uludag
18	Objective of the Course:	To acquire general information about laboratory animals, to learn about laboratory animals and to have the ability to make experimental manipulations on them.
19	Contribution of the Course to Professional Development:	To increase the knowledge and experience of students about animals used in the laboratory.
20	Learning Outcomes:	
	1	be able to Learns Nutrition of Laboratory Animals
	2	be able to Learns Zoonotic Diseases Transmitted to Humans from Experimental Animals
	3	be able to Learns Physiological Parameters of Laboratory Animals
	4	be able to Learns the Biology of Laboratory Animals
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21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Feeding of laboratory animals	Keep in and zaptrapt of laboratory animals

2	Zoonotic diseases transmitted to humans from laboratory animals	Determining the sex of laboratory animals
3	Biology of laboratory animals (rat, mouse, hamster)	Marking of tails for identifying of laboratory animals
4	Biology of laboratory animals (guinea pig and rabbit)	Methods of blood collection from laboratory animals
5	Physiological parameters of laboratory animals (rat, mouse, hamster)	Methods for biological material collecting from laboratory animals
6	Physiological parameters of laboratory animals (guinea pig and rabbit)	Method of administration of drugs and other substances at laboratory animals
7	Production and breeding of laboratory animals (rat, mouse, hamster)	Surgical applications at laboratory animals (Catheterization of Arteria Carotis)
8	Production and breeding of laboratory animals (guinea pig and rabbit)	Surgical applications at laboratory animals (Catheterization of Arteria Carotis)
9	Maintenance and hosting at laboratory animals (rat, mouse, hamster)	Surgical applications at laboratory animals(Intra cerebro ventrikuler (icv) cannulation and icv injection)
10	Maintenance and hosting at laboratory animals (guinea pig and rabbit)	Surgical applications at laboratory animals (Placement of the electrode to the brain for electroencephalography)
12	Cats and dogs are used as experimental animals	Surgical applications at laboratory animals(Ligation of nervous ishiadicus)
13	Monkeys and frogs are used as experimental animals	Surgical applications at laboratory animals (Ligation of nervous ishiadicus)
14	The purpose of the use of frogs that primitive structure in experiments and the practicality	Surgical applications at laboratory animals (Suture of skin and postoperative care)

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	1.00	14.00
Homeworks	1	20.00	20.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	3	10.00	30.00
Final Exams	1	10.00	10.00
Total Work Load			116.00
Total work load/ 30 hr			3.87
ECTS Credit of the Course			4.00

22	Textbooks, References and/or Other	1. Laboratuvar Hayvanları Biliminin Temel İlkeleri, Çeviri 2.Ö. Faruk Tekbaş, Recai Oğur, Küçük Deney Hayvanları 3.Guide for the Care and Use of Laboratory Animals Life Sciences, National Research Council, National Academy Press, Washington, D.C., 1996 4-Eila Kaliste, The Welfare of Laboratory Animals, P.O. Box 17, 3300 AA Dordrecht, The Netherlands, 2007. 5-Berrak Ç. Yeğen, Doç.Dr. M. Zafer Gören, Biyomedikal Araştırmalarda Deney Hayvanı "Temel Bilgiler ve Etik İlkeler" Yüce Yayımları , İstanbul, 2005
23	Assesment	

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	0	0.00
Quiz	0	0.00

Home work-project	1	25.00
Final Exam	1	75.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		25.00
Contribution of Final Exam to Success Grade		75.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		classical exam

24	**ECTS / WORK LOAD TABLE**

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	5	4	5	4	5	5	5	4	4	4	5	4	0	0	0	0
ÖK2	5	5	5	5	5	5	5	5	4	5	5	5	0	0	0	0
ÖK3	5	4	5	4	5	3	5	4	4	4	5	4	0	0	0	0
ÖK4	5	4	5	4	5	5	5	4	4	4	5	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**