LABORATORY ANIMAL PRODUCTION TECHNIQUES									
1	Course Title:	LABORA	TORY ANIMAL PRODUCTION TECHNIQUES						
2	Course Code:	VZT5333	3						
3	Type of Course:	Optional							
4	Level of Course:	Second (Cycle						
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	5.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	-							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Prof. Dr.	Serdal Dikmen						
15	Course Lecturers:	-							
16	Contact information of the Course Coordinator:		uludag.edu.tr, 0224-2941355, Faulcuty of Veterinary , 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	Learns rabbit breeding						
		6	Learns guinea pig breeding						
		7	Learns hamster breeding						
		8	Learns gerbil breeding						
		9	Learns issues related to animal using for research purposes						
		10							
21	Course Content:								
١٨/	Th (' l	Co	purse Content:						
Week 1	Theoretical Introduction, importance of laboratory	y animal	Practice						
2	Bio-ethic rules of animal usage testin arrangement about laboratory anima								
3	Standardization and description of argenetical and microbiological sides								

	Housing design and equipments, the condition, lighting, ventilation and integer of animal-animal and animal-human									
5	Inside conditions of shelter and produ hygiene	uction								
6	Laboratory animal selection, applicati before testing, preparing usage of lab animals									
	Methods of laboratory animal breedin mating systems	ng and								
8	Laboratory mouse breeding; position mouse in zoological system, anatomi physiological and genetical character mouse, flock management and feedir behaviours and usage conditions	cal, istic of								
9	Rat breeding; position of rat in zoolog system, anatomical, physiological and 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, management and feeding, behaviour usage conditions	flock								
	Hamster breeding; position of hamster zoological system, anatomical, physicand genetical characteristic of hamster.	ological								
Activit		er nock		Number	Durat	tion (hour)	Total Work Load (hour)			
Theore	zoological system, anatomical, pnysic lical and genetical characteristic of guinea	ologicai nig		14	2.00		28.00			
	als/Labs	r pig,	<u> </u>	0	0.00		0.00			
Self stu	and usage conditions dy and preperation Raphit breeding: position of raphit in			10	8.00	8.00 80.00				
Homew				0	0.00					
Project	and genetical characteristic of rabbit,	flock	Π	0	0.00					
Field St		S ann		0	0.00					
Mi dd ern	Realthirtsbreeding (continued) flock			0	0.00 0.00					
Others	land to the state of the state			3	10.00		30.00			
Final E	xams			1	5.00		5.00			
Total W	/ork Load						143.00			
Total w	ork load/ 30 hr		N	RC, 2011.			4.77			
ECTS (Credit of the Course		<u> </u>			4000	5.00			
			٧	Velfare, Sarah Wo	olfensohn, M	laggie Lloyd.	2013			
23	Assesment									
TERM L		NUMBE R	W	/EIGHT						
Midtern	n Exam	0	0	.00						
Quiz		0	0	0.00						
Home v	vork-project	0	0	0.00						
Final Ex	xam	1	1	100.00						
Total		1	1	100.00						
	ution of Term (Year) Learning Activities	es to	0	0.00						
	ution of Final Exam to Success Grade			00.00						

Total	100.00
Measurement and Evaluation Techniques Used in the Course	Written exam

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	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
			LO: L	earr	ning (Objec	tive	s P	Q: P	rogra	m Qu	alifica	tions	<u> </u>		
Contrib 1 very low ution Level:			2 low			3	3 Medium			4 High			5 Very High			