	BEE KEEPING AND SILKWORM BREEDING						
1	Course Title:	BEE KE	BEE KEEPING AND SILKWORM BREEDING				
2	Course Code:	Z00240	ZOO2406				
3	Type of Course:	Compulsory					
4	Level of Course:	First Cycle					
5	Year of Study:	2	2				
6	Semester:	4	4				
7	ECTS Credits Allocated:	4.00					
8	Theoretical (hour/week):	2.00					
9	Practice (hour/week):	0.00					
10	Laboratory (hour/week):	0	0				
11	Prerequisites:	None					
12	Language:	Turkish	Turkish				
13	Mode of Delivery:	Face to	Face to face				
14	Course Coordinator:	Prof. Dr.	Prof. Dr. ÜMRAN ŞAHAN				
15	Course Lecturers:						
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Ziraat Fakültesi Zootekni Bölümü Görükle- Bursa umran@uludag.edu.tr 224 2941553					
17	Website:						
18	Objective of the Course:	Gains knowledge about perform technical beekeeping, colony management, produce of bee products, the pests and diseases of bees; silkworm breeding, produce cocoon and raw silk and silkworm eggs, the diseases of silkworm					
19	Contribution of the Course to Professional Development:						
20	Learning Outcomes:						
		1	Knows the important species of bee and silkworm species that breed in different regions of the World.				
		2	Knows the important morphological and physiological charachteristics of bees and silkworm.				
		3	Knows and applies the management methods used in bee and silkworm breeding.				
		4	Learns the importance, charachteristics and the usage of products such as honey, pollen, royal jelly, bee venom, propolis and beeswax.				
		5	Learns the importance of beekeeping in pollination.				
		6	Knows the physical and chemical charachteristics of silkworm cocoon and raw silk and also the usage of silk.				
		7	Knows the methods and stages of reproductive and industrial eggs.				
		8	Knows the diseases and pests of beekeeping and silkworm rearing.				
		9					
		10					
21	Course Content:						
		Co	ourse Content:				
Week	Theoretical		Practice				

1	History of beekeeping and developme industry, current state of beekeeping World and Turkey					
2	The essential requirements for techni beekeeping	cal				
3	3 Taxonomic classification of bees, the body structure of bees' and bee species					
4 Components of the colony, activities and behaviors of the colony						
5 Usage and specifications of the products that made and collected from environment by bees						
6	Queen bee breeding, production of roand the feeding of honey bees	yal jelly				
7	7 The enemies of honey bees (diseases and pests)					
8	Repeating courses and midterm exar	n				
9	History of sericulture in our country, the production, consumption and economimpotance of its in the World and Turk	nic				
10	Species of silkworm and their charachteristics, the morphological arphysiological charachteristics, the incand hatching of silkworm eggs					
11	Genetic and breeding of silkworm, the factors that influence the silkworm rea					
Activites				Number	Duration (hour)	Total Work Load (hour)
Theore	poduction of reproductive eggs			14	2.00	28.00
Practicals/Labs				0	0.00	0.00
Self stu	idy and preperation			5	6.00	30.00
Homeworks				0	0.00	0.00
Projects			9	<del>-5-94210-0-5, тек</del> пиа( 0	0.00	0.00
Field Studies				1	6.00	6.00
Midterm exams			F	sasiarı, Ataturk Oniver akültesi Yayınları: 341,	Ders Kitapları Seri	si.880,
Others				6	5.00	30.00
Final E	kams		G	ÓJMERAC L.W., 1980	, <sup>1</sup> 5ees, Beekeeping	115oney and
Total W	/ork Load					129.00
Total w	ork load/ 30 hr		T	ne Silkworm: an İmpor		
ECTS (	Credit of the Course			111111, O. 1000. 20010		4.00
				İpekböceği Yetiştirme Bölümleri) (12-13-14-15-16-17-18-19 .Üniteler). Anadolu Üniversitesi Açık Öğretim Fak. Yayın No: 485, Anadolu Üniversitesi Basımevi, Eskişehir, 191- 332 (ISBN 975-492-628-X).  ŞAHAN, Ü. 2011.İpekböcekçiliği (İpekböceği Yetiştirme ve Islahı, Koza Üretimi, Ham İpek, Yumurta Üretimi, Hastalıklar ve Dut Yetiştirme.Dora Yayınları, Bursa, ISBN: 978-605-4118.		
23	Assesment					
TERM L	EARNING ACTIVITIES	NUMBE R	W	EIGHT		
Midterm Exam 1		40	40.00			
Quiz 0		0.	0.00			

Home work-project	0	0.00		
Final Exam	1	60.00		
Total	2	100.00		
Contribution of Term (Year) Learning Activi Success Grade	ties to	40.00		
Contribution of Final Exam to Success Grade	de	60.00		
Total		100.00		
Measurement and Evaluation Techniques U Course	Jsed in the			
24 ECTS / WORK LOAD TABLE	<b>.</b>			

## CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME **QUALIFICATIONS** PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1 ÖK2 С ი Ю ი ÖK3 ÖK4 ÖK5 ÖK6 ÖK7 Ю Ю ÖK8 LO: Learning Objectives PQ: Program Qualifications 1 very low 4 High 5 Very High 3 Medium Contrib 2 low ution Level: