	QUEEN REARING	G AND	PACKAGE BEEKEEPING							
1	Course Title:	QUEEN	REARING AND PACKAGE BEEKEEPING							
2	Course Code:	ZOO442	24-S							
3	Type of Course:	Optional								
4	Level of Course:	First Cyc	cle							
5	Year of Study:	4								
6	Semester:	8								
7	ECTS Credits Allocated:	3.00								
8	Theoretical (hour/week):	1.00								
9	Practice (hour/week):	2.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	Beekeep	ping							
12	Language:	Turkish								
13	Mode of Delivery:	Face to	face							
14	Course Coordinator:	Prof. Dr.	İbrahim Çakmak							
15	Course Lecturers:	Yok								
16	Contact information of the Course Coordinator:	Bursa Uludağ Üniversitesi Ziraat Fakültesi Zootekni Bölümü Görükle- Bursa icakmak@uludag.edu.tr Tel: 224 294 1465								
17	Website:									
18	Objective of the Course:	To gain basic knowledge and applications about queen bee and package beekeeping								
19	Contribution of the Course to Professional Development:	The contribution of the course to the professional development of the students is to gain basic knowledge and skills about queen bee and package beekeeping and to ensure that they have the knowledge to establish a business in this field when they graduate.								
20	Learning Outcomes:									
		1	Learning the equipment and materials used in queen and package beekeeping,							
		2	Learning the biology and life cycle of queen bee rearing,							
		3	Learning queen health and pheromones,							
		4	Learning the health of queen and bees in package beekeeping,							
		5	Learning transportation and important criteria in package beekeeping.							
		6								
		7								
		8								
		9								
04	Course Cententi	10								
21	Course Content:	C.	ourse Content:							
Week	Theoretical		Practice							
1	Studies on queen bees and package beekeeping in the world	9	1 1404100							
2			Equipment used in queen bee and package beekeeping-1							
3			Equipment used in queen bee and package beekeeping-2							
	1									

4	Queen bees and bee races and their characteristics										
5	Life cycles of queen bees, pheromones their functions in the hive	and									
6			Health of queen bee-1								
7			Health of queen bees	:-2							
8		-	Treatment process of	queen bees							
9	Life cycles of queen bees, pheromones	3									
10			Artificial insemination and natural reproduction in queen bees-1								
11			Artificial insemination bees-2	and natural reproduc	ction in queen						
12			Bee health for packa	ge beekeeping							
13			How the queen bee sused in package bee	hould be given to the keeping	colony to be						
14		-	Transport and import	ant criteria for packag	je beekeeping						
22	Textbooks, References and/or Other Materials:		Caron, D. 2000. Honey bee biology and beekeeping. Wicwas Press, New York. Rinderer, T. 1986. Bee genetics and breeding. Acdemic Press. Ruttner, F. 1988. Biogeography and Taxonomy of Honeybees, 3-34, Springer, Berlin. Sammataro, D., and Avitabile, A. 2011. The Beekeeper's Handbook, 214-221, Cornell University Press, London.								
Activi	tes	1	Number	Duration (hour)	Total Work Load (hour)						
Theore	eical		winston, ivi. 1987. Ho Press.	oney bee blology. Har 1.00	14.00 University						
Practic	cals/Labs		14	2.00	28.00						
Fiekin iti	LIENARINING SPOTATIONIES N	UMBE	weight	20.00	40.00						
Home	works		0	0.00	0.00						
Projec	ts .		70.00	0.00	0.00						
Field S	Studies	1/	0	0.00	0.00						
Midter	m exams		90	1.00	1.00						
Others			0	0.00	0.00						
Total Final F	xams		100.00	1.00	1.00						
Total V	Vork Load	, l-			85.00						
Total v	vork load/30 hr		30.00		2.80						
	Credit of the Course		100.00		3.00						
Course			This course will be mand final standard ex		ed by one visa						
25	CONTRIBUTION OF	QU	ALIFICATIONS								

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	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	4	5	0	0	0

ÖK3	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	4	0	4	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:		;	2 low		3 Medium			4 High			5 Very High					