AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Bee Behaviours								
Course Code	AR118		Couse Level	Short Cycle (Associate's Degree)					
ECTS Credit	3	Workload	76 *(Hours)*	Theory	2	Practice	1	Laboratory	0
Objectives of the Course	This course aims to gain to student that information about structure of bee colonies, queen bee (mating flight, to provide the colony layout, etc.) worker bees (communication, internal and external duties of the colony and so on.) and the male bee behavior								
Course Content	Activities inside and outside the colony of bees, colony examination of the behavior of individuals								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Individual Study								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading	
1	Uygulamalı Arıcılık : Enver ÖDER
2	Bal arısı biyolojisi ve yetiştiriciliği : Doç. Dr. Sibel SİLİCİ
3	Modern arıcılık teknikleri: Muhsin DOĞAROĞLU

Week	Weekly Detailed Course Contents	
1	Theoretical	The structure of honey bee colonies
2	Theoretical	The nesting behavior of honey bee in nature
3	Theoretical	
4	Practice	Application (colony members display)
5	Theoretical	The queen's life and behavior (differences in other individuals)
6	Theoretical	Life and behavior of queenbee (bee pheromone, mating flight, etc.).
7	Theoretical	Life and behavior of worker bees (colony in the tasks of work done by the physiological age)
8	Intermediate Exam	Midterm exam
10	Theoretical	Life and behavior of worker bees (the defense of the colony, hive ventilation, communication, etc.).
11	Theoretical	Color, smell, taste and sound perception of bees
12	Theoretical	The works outside the worker bee hives (food, water and propolis and so on. Collection activity)
13	Theoretical	The swarming and predatory
14	Theoretical	Life and behavior of male bees
15	Practice	Application (bee representation of the work of individuals)
16	Final Exam	Final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	2	0	14	28
Lecture - Practice	1	0	14	14
Assignment	2	0	6	12
Land Work	1	0	5	5
Reading	3	0	5	15
Midterm Examination	1	0	1	1

Final Examination	1	0	1	1
			Total Workload (Hours)	76
			[Total Workload (Hours) / 25*] = **ECTS**	3
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To be able to comprehend the general structure of the honey bee colony
2	To be able to comprehend the life and behavior of the queenbee
3	To be able to comprehend worker bee's life and the behavior

Programme Outcomes *(Apiculture)*	
1	Understand to bee family (ecology, behavior), needs and diseases of bees. To make needs for healthy colony.
2	Produce of bee and bee products with modern techniques
3	Undestand and use of tools and equipments uesd in Apiculture
4	Understand to nectar and pollen vegetables
5	To know nomadic apiculture conditions
6	Packing of bee products
7	Application to hygienic rules in apiculture enterprise
8	To have information of professional ethics and responsibility
9	Ability to work in team and individual
10	To communicate orally and in writing

Contribution of Learning Outcomes to Programme Outcomes *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

	L1	L2	L3
P1	5	4	4
P2	4		5
P3	4		4
P4	3		
P5	5		5
P9			3