



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Beekeeping I							
Course Code		AR120		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		Honey bee body structure, the characteristics of individuals that make up the colony, division of labor, knowledge transfer, direction finding, and sheets of embossed wax secretion, fry feed, food transfer, colony defense, looting, Air Conditioning, nest cleaning in Tarlac behavior of bees, nectar, pollen, water , propolis collection, sons-related behaviors, motherless colonies behavior, wintering behavior, hormones and pheromones, technical conditions necessary for beekeeping, Modern beekeeping tools and equipment, the importance of the management of the colony, in the Spring term studies, the Son term studies, both theoretical and practical is to be found.							
Course Content		The course contains the general characteristics and behavior of honey bees.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion					
Name of Lecturer(s)		Ins. Ali Kemali ÖZÜĞÜR							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	1. Modern Arıcılık Teknikleri (Prof. Dr. Musin Doğaroğlu ISBN:975-94210-0-3
2	2. Arıcılığın Temel Esasları (Prof. Dr. Ferhat Genç, Doç. Dr. Ahmet Dodoloğlu Atatürk Ü. Ziraat Fak.Yayınları No:160)
3	3. Uygulamalı Arıcılık(Enver Öder,ISBN :975-9944-62-243-5)

Week	Weekly Detailed Course Contents	
1	Theoretical	Honey bee body structure, the formation of honey
	Practice	Honey bee body structure, the formation of honey
2	Theoretical	Individuals and properties of colony
	Practice	Display of the characteristics of individuals within the colony and
3	Theoretical	features related to the life of the worker bees and division of labor
	Practice	worker bees work
4	Practice	honeycomb wax secretion and processing
5	Theoretical	The defense of the colony, irritability and bee allergy, plunderers
	Practice	behavior of worker bees
6	Theoretical	Male bees life
	Practice	Male bees life
7	Theoretical	Air Conditioning, nest removal, the mother of the behavior of bees Tarlacı behavior of bees, wintering behavior,
	Practice	Maintenance and preparation for autumn winter bees
8	Intermediate Exam	MID- TERM
9	Theoretical	What is the Son-making behavior of bees, and bees do not swarm
	Practice	Give bees swarm prevention methods
10	Theoretical	hormones
	Practice	Maintaining bee hives
11	Theoretical	pheromones
	Practice	Maintaining bee hives
12	Theoretical	Technical conditions of beekeeping
	Practice	The current status of beekeeping
13	Theoretical	beekeeping spring maintenance
	Practice	field work



14	Theoretical	How to harvest honey
	Practice	taking care of bees in spring
15	Theoretical	honey harvest
	Practice	honey harvest
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	2	0	14	28
Lecture - Practice	2	0	14	28
Land Work	8	0	4	32
Reading	5	0	2	10
Midterm Examination	1	0	1	1
Final Examination	1	0	1	1

Total Workload (Hours) 100

[Total Workload (Hours) / 25*] = **ECTS** 4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to comprehend the viability of honeybees in the colony
2	To be able to comprehend bee colony division of labor
3	To be able to comprehend bee behavior
4	To be able to comprehend bees hormones and pheromones
5	To be able to comprehend technical beekeeping conditions and maintenance of the spring, to harvest honey

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	Understand and use of tools and equipments used 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	L4	L5
P1	5	4	5	5	4
P2	4	4		4	5
P4	3				
P5					4

