

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Pests and		Pests and Dis	eases of Hone	ey Bee					
Course Code		AR226		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	5	Workload	96 (Hours)	Theory	2	Practice	1	Laboratory	0
Objectives of the Course		During this course, students examine the diseases of honey bees and the parasites that damage the bees .Morphological, anatomical and physiological characteristics will be learned. Thus, students will gain the knowledge about the more abundant, affordable and healthy production facilities.							
Course Content		Bee diseases	and pests and	d the measu	res to be ta	ken against the	em		
Work Placement		N/A							
Planned Learning Activities and		and Teaching	Methods	Explanation	n (Presenta	tion), Discussion	on, Individua	l Study	
Name of Lecturer(s)									

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

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

Week	Weekly Detailed Cour	d Course Contents				
1	Theoretical	Beekeeping activities				
	Practice	Field work				
2	Theoretical	American foulbrood disease				
	Practice	American foulbrood disease				
3	Theoretical	American foulbrood disease				
	Practice	American foulbrood disease				
4	Theoretical	Foulbrood disease and stroke				
	Practice	Foulbrood disease and stroke				
5	Theoretical	Lime, stone disease				
	Practice	Field work				
6	Theoretical	Nosema and the struggle for it				
	Practice	Nosema and the struggle for it				
7	Theoretical	Chronic and acute bee paralysis				
	Practice	Chronic and acute bee paralysis				
8	Intermediate Exam	Midterm exam				
9	Theoretical	The negative effects of antibiotics on bees				
	Practice	Field work				
10	Theoretical	The introduction of varroa, biology and epidemiology				
	Practice	The introduction of varroa, biology and epidemiology				
11	Theoretical	Drug selection against Varroa struggle, biotechnical and cultural methods				
	Practice	Drug selection against Varroa struggle, biotechnical and cultural methods				
12	Theoretical	Large and small wax moth and the struggle for it				
	Practice	Field work				
13	Theoretical	Wasps and the struggle for them				
	Practice	Field work				
14	Theoretical	Tracheal mite and the struggle for it				
	Practice	Field work				
15	Theoretical	Wild bees ants and bee-eater and the struggle for them				



15	Practice	Field work	
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	
Land Work	8	0	4	32	
Reading	5	0	4	20	
Midterm Examination	1	0	1	1	
Final Examination	1	0	1	1	
Total Workload (Hours)					
[Total Workload (Hours) / 25*] = ECTS					
*25 hour workload is accepted as 1 ECTS					

Lagraina	Outcomes	

Leain	Learning Outcomes						
1	To be able to describe viruses and bacteria diseases						
2	To be able to describe fungal and protozoa diseases						
3	To be able to describe internal and external parasites						
4	To be able to describe predators and other pests						

Programme Outcomes (Apiculture)

ı i oği	unine outcomes (Aproducte)				
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	L4
P1	5	5	5	5
P2	5	4	4	4
P7	5	5	4	5

