

### AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Beekeeping a	nd Pollination							
Course Code		ORT208		Couse	Leve	el	Short Cycle (/	Associate's I	Degree)	
ECTS Credit 4	ŀ	Workload	100 <i>(Hours)</i>	Theory		2	Practice	1	Laboratory	0
Objectives of the Course To give basic information importance of pollination.				the stu	dents	about mo	dern bee mana	agement tec	hniques, bee prod	ucts and
Course Content Beekeeping in Turk some pollinator bee									and	
Work Placement		N/A								
Planned Learning Ac	tivities	and Teaching	Methods	Explan	ation	(Presenta	tion), Demonst	tration, Discu	ussion, Case Stud	у
Name of Lecturer(s)										

#### **Assessment Methods and Criteria**

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

## **Recommended or Required Reading**

1	Doğaroğlu, M. 2004. Modern Arıcılık Teknikleri. Doğa Arıcılık Tic. Tekirdağ.
2	Akbay, R. 1995. Arı ve İpekböceği Yetiştirme. A.Ü. Z.F. Yayın No:1428
3	Crane, E. 1990. Bees and Beekeeping.

Week	Week Weekly Detailed Course Contents					
1	Theoretical	Honeybee and historical development of beekeeping				
2	Theoretical	Place and importance of beekeeping in agricultural production, apiculture in Turkey and in the World.				
3	Theoretical	Anatomy of honeybees, honeybee colony individuals and their properties				
5	Theoretical	Hormones and pheromones in honeybees, nectar and polen, nutrition of honebees.				
6	Theoretical	Honeybee species and races, essential conditions for technical beekeeping				
7	Theoretical	Colony management, spring period practices, swarm period works				
8	Intermediate Exam	Midterm Exam				
9	Theoretical	Polination of plants, importance of polination				
10	Theoretical	Management of honeybees and polinator insects in the organic production as polinator				
11	Theoretical	Nectar flow season, honey harvest, fall season and wintering works, transport of honeybee colonies, preserve of honeycombs.				
12	Theoretical	Value of queen honeybee in the colony life, quality queen honeybee breeding, Royal jelly production				
13	Theoretical	Honeybee health, sickness and injury, larvae and mature individual disease.				
14	Theoretical	Bee products, significance of bee products with regards to human health, honey, polen, royal jelly, propolis and bee venom.				
15	Theoretical	Bee products, significance of bee products with regards to human health, honey, polen, royal jelly, propolis and bee venom.				
16	Final Exam	Final Exam				

### **Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	7	0	1	7
Term Project	1	15	1	16
Studio Work	7	0	1	7
Midterm Examination	1	16	1	17



Course		

Final Examination	1		24	1	25	
Total Workload (Hours)					100	
[Total Workload (Hours) / 25*] = ECTS						
*25 hour workload is accepted as 1 ECTS						

Learr	ning Outcomes
1	To be able to comprehend the basic concepts about beekeeping in Turkey and in the world,
2	To be able to comprehend the basic concepts about importance of honeybees and some pollinator bees on pollination in the organic herbal production,
3	To be able to comprehend the basic concepts about the management of honeybee colonies,
4	To be able to comprehend the basic concepts about honey bee products production and their importance,
5	To be able to comprehend the basic concepts about the effective use of honeybee colonies in the pollination,
6	To be able to comprehend the basic concepts about honeybee diseases.

## **Programme Outcomes** (Organic Agriculture)

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

	L1	L2	L3	L4	L5	L6
P1	4					
P4	4					
P6		4				
P9	4	4	4	4	4	4