



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Artificial Insemination in Bees							
Course Code		AR241		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	50 (Hours)	Theory	1	Practice	1	Laboratory	0
Objectives of the Course		This course provides students with the reasons for the application of artificial insemination in bees and it is transferred to the theoretical and practical application of artificial insemination.							
Course Content		The importance of artificial insemination in beekeeping, representation of artificial insemination theoretically and practically							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
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 Ana arı Yetiştiriciliği(Enver Öder, Hasad Yayıncılık,1997)

Week	Weekly Detailed Course Contents	
1	Theoretical	Queen bee mating
	Practice	Queen bee mating
2	Theoretical	Check mating, the aim of artificial insemination of honey bees
	Practice	Queen bee mating
3	Theoretical	Artificial insemination equipment
	Practice	Introducing the artificial insemination equipment
4	Theoretical	Queen bee training and preparation of artificial insemination
	Practice	Queen bee training and preparation of artificial insemination
5	Theoretical	Male bee training and preparation of artificial insemination
	Practice	Male bee training and preparation of artificial insemination
6	Theoretical	Mating behavior
	Practice	Mating behavior
7	Theoretical	Artificial insemination process
	Practice	Artificial insemination process
8	Intermediate Exam	Midterm exam
9	Theoretical	Artificial insemination process
	Practice	Artificial insemination process
10	Theoretical	Factors affecting the success of artificial insemination
	Practice	Factors affecting the success of artificial insemination
11	Theoretical	Factors affecting the success of artificial insemination
	Practice	Factors affecting the success of artificial insemination
12	Theoretical	Comparison of natural mating and artificial insemination
	Practice	Artificial insemination process
13	Theoretical	Comparison of natural mating and artificial insemination
	Practice	Artificial insemination process
14	Theoretical	studies of beekeeping improvement
	Practice	Artificial insemination
15	Theoretical	Beekeeping improvement studies



15	Practice	Artificial insemination
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	1	0	14	14
Lecture - Practice	1	0	14	14
Land Work	10	0	2	20
Midterm Examination	1	0	1	1
Final Examination	1	0	1	1
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To be able to comprehend rearing of queen bee and male bees and preparing for artificial insemination
2	To be able to acquire artificial insemination

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
P1	4	
P2	5	5
P3	5	5
P8	4	
P9	5	5

