AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Honey Bee Products								
Course Code	ZT112			Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit	2	Workload	52 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The aim of this course is teaching the fundamentals of bee products.								
Course Content	Definition of bee products, biological specifications of bee products, production methods and marketing of bee products.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Case Study, 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	The Healing Power of Polen and Other Bee Products From the Beehive: Propolis-Royal Jelly- Honey. Thorsons Publishers Limited, Wellingborough, Northhamptonshire/England.
2	Simics, M. 1994. Bee Venom: Exploring the Healing Power. Apitronic Publishing, 4640 Pendlebury Rd. Richmond, B.C, Canada. 80p.
3	Stein,I. 1989. Royal jelly. The new guide to nature's richest healt food. Thorsons Public. Group , England. P. 81-106.

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition of bee products (honey, polen, royal jelly, bee venoom, propolis, apilarnil)
2	Theoretical	Production of honey and production methods
3	Theoretical	Production of polen and production methods
4	Theoretical	Production of royal jelly and production methods
5	Theoretical	Production of bee venoom and production methods
6	Theoretical	Production of propolis and production methods
7	Theoretical	Production of apilarnil and production methods
8	Intermediate Exam	Midterm exam
9	Theoretical	Report presentations
10	Theoretical	Biological specifications of honey, polen and royal jelly
11	Theoretical	Biological specifications of bee venoom, propolis, apilarnil
12	Theoretical	Factors affecting the quality of bee products
13	Theoretical	Process of bee products and marketing
14	Theoretical	General repetition
15	Theoretical	Report presentations
16	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Term Project	2	0	0	0
Midterm Examination	1	10	2	12
Final Examination	1	10	2	12
			Total Workload (Hours)	52
			[Total Workload (Hours) / 25*] = **ECTS**	2
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Understand the definition of bee products.
2	Understand biological specifications of bee products.
3	Understand the production of bee products and production methods.
4	Understand factors affecting the quality of bee products.
5	Understand the problems on process and marketing of bee products.

Programme Outcomes *(Horticulture)*	
1	Ability to examine agricultural problems under the light of basic science, mathematics, and agriculture knowledge
2	Ability to plan and apply in different agricultural systems in horticultural crop plants
3	To constitute and realize breeding programmesaccording to market demands
4	Ability to propagate any kinds of stock materials in horticultural crop plants
5	Ability ot transfer of modern technologies to production
6	Ability to have a consciousness of quality in production, storage, and evaluation in horticultural crop plants (To measure, evaluate, and manage different quality parameters)
7	To think analytically of protecting, providing transfer to future, and having responsibility to environment of all plant materials belong to horticultural crop plants area
8	Ability to search, think analytically, reach to knowledge, and obtain solution for solving of agricultural problems (Project, homework, thesis, summer training)
9	Ability to be aware of agricultural problems, to follow them, and to communicate own ideas of these subjects by verbal and written ways (Turkish, social course)
10	To be able to perform in a teamwork
11	Ability to work independently, give decision, and Express own thoughts by occupational-ethic values verbal and written ways in horticultural crop plants
12	Ability to think creatively, innovatively, and analytically, to comprehend the need of lifelong learning, be a part of a related subjects in a web of communication, and to develop by social means

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

	L1	L2	L3	L4	L5
P6	5	5	5	5	5
P7	5	5	5	5	5