

#### AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Agricultural Ecology							
Course Code		TB108		Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit 3		Workload	75 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course Understanding of natural effective environmental f								ning in	
Course Content		concepts, eco agricultural ec the atmosphe its of different	system struct osystems, light re and importa states, soil ar	ure and fun nt and temp ance of the nd soil chara	ction, ecosy erature char agricultural acteristics, b	stem energy fl racteristics and aspects, air mo	ow and cher d the effect o ovements, ef rs, conventio	he bounding basic nical matter cycles on plants, characte ffect on plants of nal and alternative	s, eristics of water and
Work Placement N/A		N/A							
Planned Learning Activities and Teaching Methods		Explanatio	n (Presenta	tion)					
Name of Lecturer(s) Prof.		Prof. Mustafa	SÜRMEN, Pr	of. Olcay A	RABACI, Pro	of. Osman ERI	EKUL		

## Assessment Methods and Criteria

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

#### **Recommended or Required Reading**

1	Turgut, İ., 2006. Tarımsal Ekoloji, ADÜ Yayınları No:12
2	Boşgelmez, A., Boşgelmez, İ.İ., Savaşçı, S., Paslı, N., Kaynaş, S., 2000. Ekoloji I, ISVAK Yayın No: 6
3	3. Boşgelmez, A., Boşgelmez, İ.İ., Savaşçı, S., Paslı, N., Kaynaş, S., 2000. Ekoloji II-Toprak, ISVAK Yayın No: 6
4	4. Farklı Kaynaklardan Derlenmiş Sunumlar ve Ders Notları Internet Kaynakları

Week	Weekly Detailed Cour	d Course Contents					
1	Theoretical	The importance of environment, definition of ecology, natural resources					
2	Theoretical	Systems models and limiting factors influence laws					
3	Theoretical	Ecosystem, ecosystems and functions of the items					
4	Theoretical	Ecosystem energy, photosynthesis					
5	Theoretical	Primary and secondary production in ecosystem and flow of energy					
6	Theoretical	Chemical cycles in ecosystems					
7	Theoretical	Agricultural ecosystems					
8	Intermediate Exam	Midterm exam					
9	Theoretical	Environmental conditions in agricultural ecosystems, climatic factors, light					
10	Theoretical	Temperature, the factors of affecting changes in temperature, thermoperiodism					
11	Theoretical	The atmosphere, layers of atmosphere, composition of the atmosphere, the importance of the agricultural aspect					
12	Theoretical	Water, air humidity, air humidity importance to plants, rainfall					
13	Theoretical	Soil factors, soil texture, structure, plant nutrient elements, Biological Factors					
14	Theoretical	Traditional and alternative farming systems					
15	Theoretical	Environmental problems caused by agriculture, sustainability					
16	Theoretical	Final Exam					

## Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	1	28
Lecture - Practice	14	1	1	28
Midterm Examination	1	5	1	6



					Course information For
Final Examination	1		12	1	13
Total Workload (Hours)				75	
		[]	Total Workload (	Hours) / 25*] = <b>ECTS</b>	3
*25 hour workload is accepted as 1 ECTS					

Learn	ning Outcomes
1	To understand the importance of environment and natural resources
2	To learn the principles of sustainability in natural and agricultural ecosystems
3	Acquiring informations about the environmental conditions of agricultural ecosystems
4	To compare conventional and alternative farming systems
5	. Finding solutions to environmental problems caused by agriculture

# 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
P1	5	5	5	5	5
P2	5	5	5	5	5
P7	5	5	5	5	5

