

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Agricultural Ecology							
Course Code	ORT117 Couse		el	Short Cycle (Associate's Degree)			
ECTS Credit 2	Workload 50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course To comprehend the ecological factors the planning of basic agricultural activiti						systems, and to fi	gure out
Course Content	nship betwee ctors; global c	n soil and a	agriculture; the	soil producti ental probler	itionship between ivity and microorg ms; photosynthesi ing systems;	anisms;	
Work Placement N/A							
Planned Learning Activities and Teaching Methods		Explanation	n (Presenta	tion), Discussio	on		
Name of Lecturer(s) Ins. Nuri KİLİMCİ							

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

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

### **Recommended or Required Reading**

1	GÖKMEN S. 2011 Genel Ekoloji Nobel Yayın No: 37 Fen Bilimleri No: 5 ISBN: 978-605-5426-36-1
2	MUSLU Y. 2000 Ekoloji ve Çevre Sorunları Aktif Yayınevi İstanbul
3	ÖZDEMİR Ş. 1997 Temel Ekoloji Bilgisi ve Çevre Sorunları Hatipoğlu Yayınları: 105 Yüksek Öğretim Dizisi: 32 ISBN: 975- 7527-84-x

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Ecological definitions and terms
2	Theoretical	Ecological definitions and terms
3	Theoretical	Natural and agricultural ecosystems
4	Theoretical	Biotic and abiotic stress factors
5	Theoretical	Agriculture-climate relations, climate groups
6	Theoretical	Global climatic change, environmental problems and pollution
7	Theoretical	Effects of temperature and light on agriculture, Precipitation and drought
8	Intermediate Exam	Mid-term Exam
9	Theoretical	Agriculture-soil relations and soil factors
10	Theoretical	Soil productivity and erosion
11	Theoretical	Photosynthesis, transpiration, water use efficiency
12	Theoretical	Respiration
13	Theoretical	Conventional and alternative farming systems
14	Theoretical	Conventional and alternative farming systems

## **Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	0	2	28	
Midterm Examination	1	10	1	11	
Final Examination	1	10	1	11	
Total Workload (Hours)					
[Total Workload (Hours) / 25*] = ECTS					
*25 hour workload is accepted as 1 ECTS					



	Course Information For
earr	ning Outcomes
1	To be able to comprehend ecological definitions and to develop the ability of making relations between ecological factors,
2	To be able to interpret natural and agricultural ecosystems,
3	To be able to compare conventional and alternative agricultural systems,
4	To be able to discuss the possible effects of global climate change on agricultural activities,
5	To be able to evaluate and interpret biotic and abiotic environmental factors,
6	To be able to comprehend and solve the problems related to ecological factors in agricultural production.
Prog	ramme Outcomes (Agricultural Machinery)
1	To be able to comprehend social, cultural and societal responsibility and keep up with national and international up contemporary issues and developments.
2	To be able to be bounded to the Atatürk nationalism, adopted to the national, ethic, spiritual and cultural value of the Turkish Nation, opened to the universal and modern development, adopted the richness, deep seated and productive properties of the Turkish language, having language sympathy and awareness, having reading pleasure and habit and having sufficient foreign language for their vocational necessities, In the directions of the Atatürk Principles and Revolutions,
3	To be able to recognize the basic computer hardware and operating systems , knowledge of internet usage being able to prepare documents, electronic tables and presentation by using office programs.
4	To be able to be aware of ethic responsibility and vocational profession and to have consciousness of a lifelong learning concept
5	To be able to know current vocational issues and to have skill to define and interprete them.
6	To be able to be aware of the universal and social dimensional effects in engineering solutions, and to be able to have knowledge about entrepreneurship and newfangleness.
7	To recognize the materials which used for preparation of agricultural machinery and have skill for the choosing the appropriate material.
8	To be able to acquire the skill of using the necessary tools and equipments which are used in the production and maintenance of agricultural machinery.
9	To be able to prepare the agricultural tools and machineries, to determine the breakdowns and to do periodic maintenance and repairs.
10	To be able to comprehend the picture of the agricultural tools and machinery and their fabrication , and have the skill to draw them via computer.
11	To be aable to assemble and to combine machinery pieces by using demountable and nondetachable junction methods.
12	To be able to have the skill of resistance calculations of the agricultural tool and machinery on computer.
13	To be able to test and control the suitability of new machines and mechanic equipment to the definite standarts and technical properties.
11	To be able to have, general knowledge of agricultural production

#### To be able to have general knowledge of agricultural production. 14

To be able to have knowledge of basic sciences. 15

# 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
P14	4	4	4	4	4	4