

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Agricultural E	cology						
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 and agricultural ecosystems with the system and the ecosystem, learning in effective environmental factors and alternative production systems on agricultural ecosystems							
Course Content		concepts, eco agricultural ec the atmosphe its of different	system struct osystems, light re and importa states, soil ar	ure and fund nt and temp ance of the a 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, e rs, conventio	the bounding basic mical matter cycles on plants, characte ffect on plants of onal and alternativ	s, eristics of water and
Work Placement		N/A							
Planned Learning Activities and Teaching Methods		Explanatio	n (Presenta	tion)					
Name of Lecturer(s)		Prof. Mustafa	SÜRMEN, Pr	of. Olcay AF	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	se 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		

Final Examination	1	12	1	13
Total Workload (Hours)			75	
[Total Workload (Hours) / 25*] = ECTS			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 (Dairy Technology)

1	Having sufficient infrastructure in basic sciences and engineering subjects and ability to use the theoretical and applied info instantly in this field.						
2	Determining the modern techniques, tools and information technologies required for applications related with his field and ability to use them efficiently						
3	Ability for planning, projecting, and designing, following up, analyzing and finding target-driven solutions related with his field						
4	Ability to have professional ethic and awareness.						
5	Ability to work, decide, express opinions orally and in written individually						
6	Ability to participate team studies, taking responsibility, making leadership.						
7	Ability to conceive Ataturk's principles and reforms, to communicate in Turkish and foreign language.						
8	 Continuously renew himself. Having sufficient level of information about production and quality control of milk and dairy products and also product development, increasing product quality and food security fields. Ability to detect, define, solve problems related with his field and to select and apply suitable methods and modeling. 						
9							
10							
11	To be conscious about workplace applications, worker health, work security and environment subjects, to have knowledge about legal results of the engineering applications related with his subject.						

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

	L1	L2	L3	L4	L5	
P8	4	4	4	4	4	
P10	4	4	4	4	4	

