



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Agriculture and Environment							
Course Code		TB110		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		In general, it is aimed to determine the environmental effects of field crops production. The different production techniques and some innovative applications that have been applied can be tried to determine of the environmental impacts.							
Course Content		Determination of the production quantities of field crops in Turkey and in the world. Determination of expenses such as fertilizers, pesticides and irrigation water that must be used in their production. Determination of indirect effects (dams, irrigation subdivisions, deterioration of soil structure, erosion, etc.) indirectly (pesticides and fertilizer application, etc.). With innovative agricultural practices to be applied in traditional agricultural systems, how much the effect on the environment can be reduced?							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Case Study					
Name of Lecturer(s)		Assoc. Prof. Yakup Onur KOCA, Lec. Feride ÖNCAN SÜMER							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Aydoğdu, M., Gezer, K., 2007. Çevre Bilimi. Anı Yayıncılık. s: 224.
---	---

Week	Weekly Detailed Course Contents	
1	Theoretical	Principles of agricultural and environmental interaction
2	Theoretical	Agricultural geography and environment
3	Theoretical	Agricultural and Environmental Regulations
4	Theoretical	Environment in EU Integration Process
5	Theoretical	Global climate change
6	Theoretical	Greenhouse Gases
7	Theoretical	The Effect of Carbon Dioxide
8	Theoretical	Effect of Temperature
9	Intermediate Exam	Midterm exam
10	Theoretical	Influence of light
11	Theoretical	Water shortage
12	Theoretical	Radioactive pollution
13	Theoretical	Genetic contamination and agriculture
14	Theoretical	Environmental problems
15	Theoretical	Eco-Friendly Farming Techniques
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Midterm Examination	1	8	2	10
Final Examination	1	10	2	12
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				



Learning Outcomes

1	Having knowledge about world and country production projections and interactions about agriculture and environment
2	Understanding the impact of the environment on agriculture and environmental protection
3	Interdisciplinary study and analytical thinking about solving problems in agriculture and environment
4	Using modern techniques in environmentally friendly agriculture
5	Recognition of global climate change

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 programmes according to market demands
4	Ability to propagate any kinds of stock materials in horticultural crop plants
5	Ability of 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
P8	5	5	5	5	5

