AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Fertilization								
Course Code	ORT209		Couse Level	Short Cycle (Associate's Degree)					
ECTS Credit	3	Workload	75 *(Hours)*	Theory	2	Practice	1	Laboratory	0
Objectives of the Course	To provide information about the use of manure in organic farming, to present the materials that can be used as fertilizers and to teach how to produce fertilizers and composts, to explain the precautions to be taken for the sustainability of soil fertility.								
Course Content	The concept of organic farming, soil organic agriculture, organic agriculture fertilizers, soil conditioners, materials that can be used as organic fertilizer, compost and artificial fertilizers								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study, Problem Solving								
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	Kacar, B. ve Katkat, V. 2009. Gübreler ve Gübreleme Tekniği. ISBN : 978-9944-77-159-7.
2	Aktaş, M. 1995. Bitki Besleme ve Toprak Verimliliği. Ankara Üniversitesi Ziraat Fakültesi Yayın no: 1429, Ders Kitabı:416. Ankara.
3	Karaçal, İ. 2008. Toprak Verimliliği. Nobel Yayın No:1335, Fen Bilimleri:80, ISBN: 978-605-395-133-9.
4	Aktaş, M. ve Ateş, M. 2005. Bitkilerde Besleme Bozuklukları Nedenleri ve Tanınmaları

Week	Weekly Detailed Course Contents	
1	Theoretical	Development of the concept of organic farming and organic farming in our country and world.
	Practice	land applications
2	Practice	land applications
3	Theoretical	Aim, scope and definitions in organic farming (terminology)
	Practice	land applications
4	Theoretical	Soil protection in organic farming and soil protection methods
	Practice	land applications
5	Theoretical	The concept of fertility and sustainable productivity conditions in the soil
	Practice	land applications
6	Theoretical	The relations between soil analysis and productivity
	Practice	land applications
7	Theoretical	Cultivation and methods in organic farming
	Practice	land applications
8	Intermediate Exam	Midterm Exam
9	Theoretical	Fertilization in organic farming and matters to be considered
	Practice	land applications
10	Theoretical	Materials can be used as organic fertilizers and soil regulators in organic farming and general information about the properties
	Practice	land applications
11	Theoretical	Soil regulators, characteristics and usage
	Practice	fertilizer calculations
12	Theoretical	Materials can be used as organic fertilizers, characteristics and usage
	Practice	fertilizer calculations
13	Theoretical	Composting of animal manure
	Practice	compost applications

14	Theoretical	Synthetic organic fertilizers
	Practice	compost applications
15	Theoretical	General evaluation

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Midterm Examination	1	8	1	9
Final Examination	1	9	1	10
			Total Workload (Hours)	75
			[Total Workload (Hours) / 25*] = **ECTS**	3
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To be able to compare the status of organic farming in the world with Turkey,
2	Recognition of plant nutrients
3	To be able to explain fertilizers used in organic agriculture,
4	To be able to list the methods of application of fertilizers using in organic agriculture,
5	To be able to explain the compost techniques of organic waste.

Programme Outcomes *(Organic Agriculture)*	
1	
2	
3	
4	
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11	

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

	L1	L3	L4	L5
P8	5	5	5	5
P9	4	4	4	4