



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Mechanization Applications in Organic Farming							
Course Code		ZTM616		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	7	Workload	170 ( <i>Hours</i> )	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		The aim of the course is to inform the students about the traditional production systems, due to the intensive use of chemicals and mechanization practices, taking control of the damage done to the environment and has become the focus of attention in recent years, organic agriculture, plant, water, soil, and other environmental demands of mechanization of harvesting and storage practices, and taking into account the soil tillage and regulations.							
Course Content		Content of the course is definition of organic agriculture, the scope of organic agriculture, housing and land reclamation, soil tillage systems, storage, packaging, inspection and certification.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	Basic Standards for Organic Agriculture and and Processing and Guidelines. IFOAM, Anonymous, 2000
2	Organik Tarım El Kitabı. T.C Tarım ve Köyşleri Bakanlığı, Anonymous, 2001.
3	Organik Tarım ile İlgili Ulusal ve Uluslararası Dernek ve Kuruluşların WEB SİTELERİ

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition and history of organic farming
2	Theoretical	Scope and objectives of organic agriculture
3	Theoretical	Soil conservation and environmental protection rules in organic agriculture
4	Theoretical	Soil treatment in organic agriculture
5	Theoretical	Soil tillage systems in organic agriculture
6	Theoretical	Sowing in organic agriculture
7	Intermediate Exam	Midterm Exam
8	Theoretical	Pest control in organic farming
9	Theoretical	Irrigation in organic agriculture
10	Theoretical	Harvest in agriculture
11	Theoretical	Storage and pre-processing in organic agriculture
12	Theoretical	Storage and pre-processing in organic agriculture
13	Theoretical	Packaging, marking and transport in organic agriculture
14	Theoretical	Packaging, marking and transport in organic agriculture
15	Theoretical	Control and certification in organic agriculture
16	Final Exam	Final Exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Lecture - Practice	14	2	2	56
Assignment	1	0	30	30
Land Work	1	0	20	20
Midterm Examination	1	2	2	4



Final Examination	1	2	2	4
Total Workload (Hours)				170
[Total Workload (Hours) / 25*] = ECTS				7
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	To understand the scope and purpose of organic farming
2	To inform about environmental protection, land reclamation and cultivation of organic agriculture, housing issues such as pest control.
3	Understanding the organic agriculture, storage, pre-processing, packaging, transport, control and certification and become familiar with issues and processes.
4	Understanding the organic agriculture, storage, pre-processing, packaging, transport, control and certification and become familiar with issues and processes.
5	Understanding the organic agriculture, storage, pre-processing, packaging, transport, control and certification and become familiar with issues and processes.

### Programme Outcomes (Agricultural Machinery Doctorate)

1	Identification, formulation and solving the problems in the field of Agricultural Machinery
2	The ability to use modern engineering tools and techniques
3	The ability to use the information, which is obtained by following the scientific and technological developments, in the academic life and practice.
4	The ability to evaluate multi-faced relationship between them by understanding interaction among agricultural technology, soil, plants and animals
5	Professionalism and ethical responsibility
6	The ability to work in disciplinary and multi-disciplinary teams
7	The ability to communicate effectively
8	The ability to do research for accessing information and to use data base and other resources
9	The ability to do analyze and interpret the experimental results and the design of experiment
10	The ability to identify and interpret knowledge of current professional issues and events
11	The ability to get aware the universal and social effects of engineering solutions and applications
12	Accordance with the requirements of science and technology, ability to use scientific knowledge creative

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

	L1	L2	L3
P1	4	4	4
P2	4	4	4
P3	4	4	4
P4	4	4	4
P5	4	4	4
P6	4	4	4
P7	4	4	4
P8	4	4	4
P9	4	4	4
P10	4	4	4
P11	4	4	4
P12	4	4	4

