



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Agricultural Mechanization							
Course Code		ZYD241		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	75 (Hours)	Theory	2	Practice	1	Laboratory	0
Objectives of the Course		Students, the development of agricultural mechanization, energy and agriculture, thermal engines, tractors and agricultural equipment, the introduction of all the tools, the use of this tool to teach the fundamental concepts of machines, such as safety rules are followed.							
Course Content		Machinery and equipment, agricultural equipment, tractors, tillage, sowing and planting, harvest, threshing, plant protection, maintenance, promotion and usage patterns, and other tools							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Hasat-Harman İlkeleri ve Makineleri. E.Güzel, Ç.Ü. Z.F. Ders Kitabı, Adana, 1998
2	Tarım Makineleri-2. Güzel ve Ark., ISBN-975-8561-65-0:İki Bölüm. Nobel Yayınları-Adana, 2006

Week	Weekly Detailed Course Contents	
1	Theoretical	Mechanization in agriculture
2	Theoretical	Energy and Agriculture
3	Theoretical	Electrical machines and heat engines
4	Theoretical	Tractors
	Practice	Introduction of tractors
5	Theoretical	soil cultivation machines
	Practice	1.Class soil cultivation machines introduction and use
6	Theoretical	Toprak işleme makinaları soil cultivation machines
	Practice	2.Class soil cultivation machines introduction and use
7	Theoretical	Sowing, planting machines
	Practice	Examination of the introduction of Sowing machines and working principle
8	Intermediate Exam	MIDTERM EXAM
9	Theoretical	Sowing, planting machines
	Practice	Examination of the introduction of planting machines and working principle
10	Theoretical	Fertilization machines
	Practice	Introduction of fertilization machines
11	Theoretical	Irrigation Machines
	Practice	Irrigation Machines in examination
12	Theoretical	Plant protection machines
	Practice	Introduction of Plant protection machines
13	Theoretical	Harvesting machines
	Practice	Products, cotton harvesting machine and the operating principle of our region, examining harvester, olive harvest investigation and operation of tools and machinery
14	Theoretical	threshing machines
	Practice	Introduction of threshing machines



15	Theoretical	Processing machinery
	Practice	ALPLER factory visit
16	Final Exam	FINAL EXAM

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Lecture - Practice	14	0	1	14
Assignment	10	0	3	30
Term Project	1	0	10	10
Land Work	5	0	1	5
Midterm Examination	1	0	1	1
Final Examination	1	0	1	1
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 comprehend The acquisition of basic information on agricultural machines
2	To be able to comprehend Work force and the recognition of agricultural machines,
3	To be able to comprehend the characteristics and principles of construction, the problems can be solved in this topic

Programme Outcomes (Olive Cultivation and Olive Processing Technology)

1	To be able to identify olive, soil and water and to having knowledge these
2	To be able to comprehend knowledge botany and fruit growing
3	To be able to comprehend table olive technology and to apply
4	To be able to comprehend knowledge basic biochemistry and olive oil chemistry and to have olive oil with modern and traditional systems, to have knowledge olive oil refinery, basic process and to have apply olive oil extraction
5	To be able to preserve olive and olive products in appropriate condition
6	To be able to comprehend growing olive plant with necessary agricultural methods and to have general maintenance of olive tree
7	To be able to evaluate olive by-products
8	To be able to comprehend knowledge about vegetable genetic
9	To be able to comprehend knowledge occupational safety and have apply first aid
10	To be able to apply necessary laboratory analysis in olive and olive products production
11	To be able to apply hygiene and sanitation rules in factory
12	To be able to comprehend knowledge of professional ethics and responsibility
13	To be able to comprehend knowledge marketing of olive products and to have olive management
14	To be able to communicate verbally and literally
15	To be able to comprehend planning olive growing and production area
16	To be able to comprehend knowledge vegetable ecology and protection of environment

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

	L1	L2	L3
P5	1	1	1
P6	5	5	5
P7	1	1	1
P9	2	2	2
P10	1	1	1
P11			1
P12			1
P15	2	2	2
P16	1	1	1

