AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Agricultural Mechanization					
Course Code		TRİ116		Couse Level	Short Cycle (Associate's Degree)		
ECTS Credit	4	Workload	102 *(Hours)*	Theory	2	Practice	1	Laboratory	0
Objectives of the Course		the development of agricultural mechanization, energy and agriculture, thermal engines, tractors and agricultural equipment, the introduction of all the tools, the use of this tools, the fundamental concepts of machines					
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), Experiment, Individual Study				
Name of Lecturer(s)							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Rahmi Keskin, Doğan Erdoğan, Tarımsal Mekanizasyon, AÜ Ziraat Fakültesi Yayınları

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	İnradoction of tractor
5	Theoretical	soil cultivation machines
	Practice	1.Class soil cultivation machines introduction and use
6	Theoretical	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	Theoretical	Midterm exam
9	Theoretical	Sowing, planting machines
	Practice	Examination of the introduction of planting machines and working principle
10	Theoretical	Irrigation Machines
	Practice	Irrigation Machines in examination
11	Theoretical	Fertilization machines
	Practice	Introduction of fertilization machines
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
16	Theoretical	Final Exam.

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	11	0	1	11
Assignment	10	0	1	10
Seminar	2	5	1	12
Term Project	3	0	3	9
Land Work	5	2	0	10
Reading	5	0	3	15
Individual Work	5	0	1	5
Midterm Examination	1	0	1	1
Final Examination	1	0	1	1
Total Workload (Hours)				102
[Total Workload (Hours) / 25*] = **ECTS**				4

25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Recognizes the tractor
2	Knows the basic soil cultivation machines
3	Knows to basic sowing, and planting machines
4	knows to irrigation machines
5	Knows to harvesting machines
6	Knows to threshing machines

Programme Outcomes *(Organic Agriculture)*

1	To have university life, to use computer technology and to have skills for raising of scientific data
2	To produce according to organic agriculture rules
3	To know and apply starter to organic agriculture,and to get product certification
4	To know genetic for organic vegetable and animal species
5	To know and apply organic production principle and regulations and protection of environment
6	Understand and apply production techniques for organic vegetable and animal
7	To understand control methods for diseases and pests in organic agriculture
8	Having knowledge of quality control, preserving and marketing of organic products
9	To having knowledge equipments and methods for new agricultural technologies
10	To have knowledge of proffessional ethics and responsibility
11	Ability to work in team and individual
12	To communicate orally and in writing
13	To have adopt life-long learning importance and to have follow professional developments

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

	L1	L2	L3	L4	L5	L6
P3	3	4	4	4	4	4
P6	4	4	4	4	4	4