



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Agricultural Mechanization							
Course Code		TR116		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	102 (<i>Hours</i>)	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
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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	İnradocion 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 (Agricultural Management)

1	To be able to comprehend the basic management, economy and agricultural management
2	To be able to acquire basic information in excessive, profitable and quality production of vegetable and animal products
3	To be able to manage production in factory, to prepare project and to keep business records
4	To be able to develop solutions in agricultural management
5	To be able to comprehend optimally preparation and marketing in agricultural foods process
6	To be able to follow professional developments and to acquire knowledge to use technological resources
7	To be able to reach the scientific data using computer and the internet
8	To be able to determine the problem about agricultural management, to analyze, to develop solutions and suggestions
9	To be able to comprehend Atatürk Principle and Revolution
10	To be able to take precautions about the problems related to first aid and occupational safety in the enterprise, to solve the problems
11	To be able to use Turkish well, to communicate orally and in writing, to have knowledge of professional ethics and responsibility

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
P1		4	4	3	3	3
P4		4	4	3	3	4
P5	4	4	4	3	3	4
P6		4	4	3	3	4

