



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Agricultural Mechanization							
Course Code		TAB111		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	1	Practice	2	Laboratory	0
Objectives of the Course		Introduction of agricultural machines.							
Course Content		To recognize the agricultural machine, to ensure the development of agricultural mechanization, to teach the working principle of the tractor, to teach the principle of agricultural tools and machines work							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Lec. Taner AKBAŞ							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Önal, İ., 2011. Ekim Bakım Gübreleme Makinaları. E.Ü.Z.F. Press Number:490, İzmir.
2	Yağcıoğlu, A., 2008. Bitki Koruma Makineleri. E.Ü.Z.F. Press Number. 508, İzmir.
3	Erdoğan, D., 2005. Tarım Makinaları. A.Ü.Z.F. Press Number: 1548, Ankara.
4	Keçecioglu, G. ve E.Gülsoylu, 2002. Toprak İşleme Makinaları. E.Ü.Z.F. Press Number: 545, İzmir.

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction the course and general information about the teaching aids
	Practice	Introduction of agricultural machines
	Preparation Work	Examining course contents
2	Theoretical	Definition of agricultural mechanization, historical development, advantages and Agricultural mechanization in turkey (agricultural structure, historical development and level, important factors to delay of development)
	Practice	Introduction of agricultural machines
	Preparation Work	Literature review about the subject
3	Theoretical	Energy resources in agriculture and tractors (technical and working features)
	Practice	Introduction of agricultural machines
	Preparation Work	Literature review about the subject
4	Theoretical	Tractors (technical and working features)
	Practice	Introduction of tractors
	Preparation Work	Literature review about the subject
5	Theoretical	Soil tillage equipment and machinery (ploughing technics, ploughs, subsoiler)
	Practice	Introduction of agricultural machines
	Preparation Work	Literature review about the subject
6	Theoretical	Soil tillage equipment and machinery (ploughing technics, ploughs, subsoiler)
	Practice	Introduction of agricultural machines
	Preparation Work	Literature review about the subject
7	Theoretical	Soil tillage equipment and machinery (cultivator, harrow, roller, rotovator)
	Practice	Introduction of agricultural machines
	Preparation Work	Literature review about the subject
8	Intermediate Exam	Midterm exam
9	Theoretical	Sowing, planting and maintenance equipment
	Practice	Introduction of agricultural machines
	Preparation Work	Literature review about the subject
10	Theoretical	Sowing, planting and maintenance equipment



10	Practice	Introduction of agricultural machines
	Preparation Work	Literature review about the subject
11	Theoretical	Plant protection machinery
	Practice	Introduction of agricultural machines
	Preparation Work	Literature review about the subject
	Theoretical	Harvesting machinery
12	Practice	Introduction of agricultural machines
	Preparation Work	Literature review about the subject
13	Theoretical	Bale and silage machinery
	Practice	Introduction of agricultural machines
	Preparation Work	Literature review about the subject
	Theoretical	Threshing machinery
14	Practice	Introduction of agricultural machines
	Preparation Work	Literature review about the subject
15	Theoretical	Practice exam
	Practice	Explanation of agricultural machines in the form of questions and answers
	Preparation Work	Practice Exam preparation
16	Theoretical	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Lecture - Practice	14	0	2	28
Midterm Examination	1	3	1	4
Final Examination	1	3	1	4
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to understand the information of the definition of agricultural mechanization, its historical development, benefits, level of agricultural mechanization in Turkey
2	To be able to acquire the basic concepts of agricultural tools and machinery
3	To be able to understand agricultural machinery (constructional and using features).
4	To be able to understand agricultural tractors (general features).
5	to be able to understand the energy resources in agriculture and its use.

Programme Outcomes (Organic Agriculture)

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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	L2	L3	L4	L5
P7	4	5	5	5	5
P8	4	4	4	4	4
P11	4	4	4	4	4

