

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Agricultural Mechanisation									
Course Code		TAP106		Couse Level		Short Cycle (Associate's Degree)					
ECTS Credit 3		Workload	72 (Hours)	Theory	,	2	Pract	tice	1	Laboratory	0
Objectives of the Course		Development of mechanization in agriculture, energy and agriculture; engines, tractors, tillage equipment and machines, sowing, planting, fertilizing and maintenance machinery, irrigation equipment, agricultural machines of war, harvest-threshing machines, agricultural machinery management issues to inform students.									
Course Content		Concepts relative tractors, tillage	ted to agricult e machines, s	ural mee howing	chanizati machine	on, ene s, fertili	ergy so zing n	ources in nachines	agriculture, , plant prote	thermal engines, t	farm
Work Placement		N/A									
Planned Learning Activities		and Teaching	Methods	Explan	ation (Pr	esenta	tion), I	Demonst	ration		
Name of Lecturer(s)											

## **Assessment Methods and Criteria**

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

### **Recommended or Required Reading**

- 1 https://akademik.adu.edu.tr/myo/cine/webfolders/File/ders%20notlari/Tarimsal%20Mekanizasyon.pdf
- 2 Tarımsal Mekanizasyon, A.Ü.Z.F. Yayınları No:1254, Ders Kitabı:359, Ankara.
- 3 G. Ergüneş, 2009. Tarım Makinaları. Nobel Yayın. 556 s.

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Course Description, Situation of Turkey's Agriculture and Mechanization, mechanization Benefits
2	Theoretical	Energy, Internal Combustion Engines
3	Theoretical	Internal Combustion Engines
4	Theoretical	Tractors
5	Theoretical	Soil Tillage Tools - Machines (The Importance of Tillage, mouldboard Plows)
6	Theoretical	Soil Tillage Tools - Machines (Disc Ploughs, Harrows, Cultivator)
7	Theoretical	Soil Tillage Tools - Machines (Rollers, Harrows, Soil Mill)
8	Intermediate Exam	Midterm examination
9	Theoretical	Seed Machines (Sowing methods, Sowing Machines)
10	Theoretical	Seed Machines (Sowing Precision Machines, Marker Settings)
11	Theoretical	Planting Machines
12	Theoretical	Fertilizing Machines
13	Theoretical	Plant Protection Machinery
14	Theoretical	Harvesting Machinery
15	Theoretical	Technological Developments in agriculture
16	Final Exam	Final Exam

#### **Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	0	2	28	
Lecture - Practice	14	0	1	14	
Midterm Examination	1	14	1	15	
Final Examination	1	14	1	15	
	72				
	3				

\*25 hour workload is accepted as 1 ECTS



Learn	ng Outcomes
1	Learn the concepts related to agricultural mechanization
2	Learn the properties of energy sources in agriculture
3	Learn the working methods of thermal engines
4	Recognize the agricultural tractors and be able to connect with agricultural machine
5	Learn the soil processing machines
6	Learn the general characteristics of sowing methods and sowing machines
7	Learn the general characteristics of fertilizing machines
8	Learn the general characteristics of plant protection machines
9	Perform mathematical operations

# Programme Outcomes (Medical and Aromatic Plants)

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1	Understands the importance of medicinal and aromatic plants in the World and Turkey
2	Learn about the general characteristics of medicinal and aromatic plants. Learn the important issues in cultivation and can apply.
3	Learn about usage technologies about medicinal and aromatic plants and can apply.
4	Inform of producers of medicinal and aromatic plant species in offering, material supply, production process, marketing matter.
5	Know and follow the laws and regulations pertaining to the profession.
6	Learns morphological and anatomical structures of plants.
7	Learns to identify medicinal and aromatic plants.
8	To be able to behave sensitively towards environmental issues at national and global levels and to be able to interpret solution-oriented information; to be able to be an environmentally conscious and entrepreneurial individual
9	To be able to follow, evaluate and implement new developments and applications in the cultivation of medicinal and aromatic plants independently or as a team.

# 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	L7	L8	L9
P1	3	3							
P2	5	5	5	4	5	4	3	4	
P3	4	4	4	4		4	3	4	
P4	4	4	4	4	4	5	3	4	4
P9	5	5	5	5	5	5	5	5	