



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Agricultural Mechanization							
Course Code		TİS113		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	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 related to agricultural mechanization, energy sources in agriculture, thermal engines, farm tractors, tillage machines, sowing machines, fertilizing machines, plant protection machinery							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Lecturers Lesson Notes
2	KESKİN, R. ve D. ERDOĞAN, 1984. Tarımsal Mekanizasyon. Ankara Üniversitesi, Ziraat Fakültesi Yayınları: 927, Yardımcı Ders Kitabı: 262, 325 s., Ankara.

Week	Weekly Detailed Course 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
9	Theoretical	Seed Machines (Sowing methods, Sınavari 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	15	0	2	30
Midterm Examination	1	8	1	9
Final Examination	1	10	1	11
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 comprehend the concepts related to agricultural mechanization
2	To be able to comprehend the properties of energy sources in agriculture
3	To be able to comprehend the working methods of thermal engines
4	To be able to recognize the agricultural tractors and connect with agricultural machine
5	To be able to comprehend the soil processing machines
6	To be able to comprehend the general characteristics of sowing methods and sowing machines

Programme Outcomes (Agricultural Management)

1	To be able to use basic knowledge about agricultural, the struggle to preserve and marketing
2	To be able to use theoretical and practical knowledge gained in the basic fields of farm management
3	To be able to take duties and responsibilities at all levels of the agricultural business management
4	To be able to comprehend economic problems of agriculture, have the abilities of data collection, analysis, interpretation and project based solution production
5	Ability to predict and interpret the potential effects of national and international economical and political developments on Turkish agricultural sector
6	Having necessary skills for management and planning of agricultural and rural development projects
7	To be able to collaborate with stakeholders at producer and institutional levels to improve communication and education
8	To be able to use computer programs and technology to an adequate level required by business practices
9	To be able to comprehend knowledge of law that is necessary for farm management field and to be able to use this information
10	To be able to apply professional, moral values and sense of social responsibility
11	To be able to work independently in the major by communicating effectively through expressing ideas orally and written.

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	4	4	4	4
P2	5	5	5	5	1	5
P3	4	4	4	4	4	4
P4	1	4	1	4	4	4
P5	1	1	1	1	1	1
P6	4	5	4	4	4	4
P7	1	1	1	1	1	1
P8	1	1	1	1	1	1
P9	4	1	1	1	1	1
P10	1	1	1	1	1	1
P11	1	1	1	1	1	1

