



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Agricultural Mechanization							
Course Code		TAB106		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	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 related to agricultural mechanization, energy sources in agriculture, thermal engines, farm tractors, tillage machines, sowing machines, fertilizing machines, plant protection machinery							
Work Placement		Students have to complete their internship and properties within the required thirty work days time. The required rules are describes at the Adnan Menderes University, Sultanhisar Vocational School, Student Internship Instructions.							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study, Problem Solving					
Name of Lecturer(s)		Ins. Muammer ERDEN							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Final Examination	1	100

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.
3	Textbook, articles and so on. all such literatures related with lesson.

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	Theoretical	Soil Tillage Tools - Machines
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
	Practice	Practice exam
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
Studio Work	14	1	0	14



Final Examination	1	18	1	19
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

Learning 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)

1	Having the recognition, classification and the use areas knowledge of medical and aromatic plants
2	Having practical and technical knowledge about cultivation and production of medical and aromatic plants
3	Having knowledge of morphology, anatomy, cytology, physiology and biochemical structures of medical and aromatic plants
4	Having knowledge of importance of soil conditions to grow medical and aromatic plants
5	Having information and the ability to use materials related with basic math and basic chemistry founded on qualifications gained in secondary education
6	Having ability to use effective own language and having knowledge of foreign language in order to communicate own colleagues and own customers
7	Having ability to collect medical and aromatic plants, having knowledge of seed technology, drying and conservation of these plants
8	Having ability to identify and to fight diseases and pests of medical and aromatic plants
9	Having knowledge of all Agricultural activities
10	Having knowledge of Atatürk Principle and Revolutions and to assimilate Atatürk Principle and Revolutions
11	Having consciousness of quality
12	Having knowledge and accumulation of investigative and evaluation
13	Ability to work as an individual capable of independent decision-making ideas verbally and in writing, stating the figure to communicate in a clear and concise
14	Ability to identify plants used for medical purposes and to obtain mixtures from drugs acquired these plants
15	Having skill and knowledge of marketing techniques medical and aromatic plants

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	4	1	1	5	1	1	5	1	5
P2	4	4	4	4	4	4	4	4	4
P3	1	1	1	1	1	1	1	1	1
P4	1	5	5	1	5	5	5	5	5
P5	1	4	1	1	1	1	1	1	5
P6	1	1	1	1	1	1	1	1	1
P7	5	5	5	5	5	5	5	5	5
P8	1	1	1	1	1	1	1	1	1
P9	5	5	5	5	5	5	5	5	5
P10	1	1	1	1	1	1	1	1	1
P11	5	1	1	1	1	1	1	1	1
P12	5	1	1	1	1	1	1	1	5
P13	1	1	1	1	1	1	1	1	1
P14	5	1	1	1	1	1	1	1	5
P15	5	1	1	1	1	1	1	1	1

