



**AYDIN ADNAN MENDERES UNIVERSITY
SULTANHISAR VOCATIONAL SCHOOL
PLANT AND ANIMAL PRODUCTION
SEEDLING PRODUCTION
COURSE INFORMATION FORM**

Course Title	Agricultural Mechanization								
Course Code	TAB1106			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 (%)
Midterm Examination	1	40
Final Examination	1	60

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	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
	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
Midterm Examination	1	7	1	8



Final Examination	1	10	1	11
			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 (Seedling Production)

1	Having knowledge of physiology and morphology characteristics, growth, development and biochemical events occurred in fruits, vegetables and ornamentals plants
2	Having knowledge of soil, climate and irrigation conditions grown fruits, vegetables and ornamentals plants
3	Having knowledge of identification, classification and the use areas of fruits, vegetables and ornamentals plants
4	Having practical and theoretical knowledge of production techniques of fruits, vegetables and ornamentals plants
5	Having ability to identify and to maintain diseases and pests of fruits, vegetables and ornamentals plants
6	Having knowledge of marketing techniques, standards, contributions to the economy of fruits, vegetables and ornamentals plants, legal issues
7	Having knowledge of facilities and builds grown fruits, vegetables and ornamentals plants, and tools and materials used.
8	Having ability to use effective own language and having knowledge of language in order to communicate own colleagues and own customers,
9	Having knowledge of Atatürk Principle and Revolutions and, ability to assimilate Atatürk Principle and Revolutions
10	Having an enough foreign language to able to follow new development in relation with nursery production

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	1	1	2	1	1	1
P2	5	5	1	1	5	5	1	1	4
P3	4	4	1	1	1	1	1	1	4
P4	5	1	1	1	1	1	1	1	5
P5	1	1	1	1	1	1	1	4	1
P6	1	1	1	1	1	1	1	1	5
P7	5	5	5	5	5	5	5	5	5
P8	1	1	1	1	2	2	1	1	1
P9	1	1	1	1	2	2	1	1	1
P10	3	1	1	1	2	2	1	1	3

