



AYDIN ADNAN MENDERES UNIVERSITY
KOÇARLI VOCATIONAL SCHOOL
MECHANICAL AND METAL TECHNOLOGY
AGRICULTURAL MACHINERY
COURSE INFORMATION FORM

Course Title	Agricultural Machinery Management and Planning								
Course Code	TAM236			Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Calculation of business success and the costs in agricultural enterprises, mechanization planning.								
Course Content	Mechanization in Turkish and the World agriculture. Importance and necessity of mechanization planning. Operation planning of mechanization. Make economic analyses of agricultural tools and machines. Explain business success of agricultural tools and machines								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Project Based Study, Individual Study, Problem Solving								
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Sezer, S., Engürülü, B., Çiftçi, Ö., Gölbaşı, M., Başaran, H.Ç. ve Yılmaz, H., 2006. Tarım Makineleri İşletmeciliği. Republic of Turkey Ministry of Food, Agriculture and Livestock Ankara Zirai Üretim İşletmesi, Personel ve Makine Eğitim Merkezi Müdürlüğü, ISBN:975-407-200-0, Ankara.
2	Rehber, E., 1987. Tarımsal İşletmecilik ve Planlama. U.Ü.Z.F. Course Book Number: 30, Bursa.
3	Erkuş, A. ve Demirci R., 1993. Tarımsal İşletmecilik ve Planlama. A.Ü.Z.F. Press Number: 944, Ankara.

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction the course and general information about the teaching aids
	Preparation Work	Examining course contents
2	Theoretical	Structure and properties of Turkey's agriculture mechanization
	Preparation Work	Literature review about the subject
3	Theoretical	Introduction to basic concepts and relevant planning of agricultural machinery
	Preparation Work	Literature review about the subject
4	Theoretical	The importance of agricultural management and related concepts
	Preparation Work	Literature review about the subject
5	Theoretical	Business achievements of agricultural tools and machinery
	Preparation Work	Literature review about the subject
6	Theoretical	Time study
	Preparation Work	Literature review about the subject
7	Theoretical	Calculation of tractor pull bar
	Preparation Work	Literature review about the subject
8	Intermediate Exam	Midterm exam
9	Theoretical	Tractor performance
	Preparation Work	Literature review about the subject
10	Theoretical	Determining the power requirements of agricultural machines
	Preparation Work	Literature review about the subject
11	Theoretical	Mechanization costs
	Preparation Work	Literature review about the subject
12	Theoretical	Duration of the economic
	Preparation Work	Literature review about the subject
13	Theoretical	Selection of proper mechanization system
	Preparation Work	Literature review about the subject
14	Theoretical	Models of machine usage



14	Preparation Work	Literature review about the subject
15	Theoretical	Mechanization planning a business
	Preparation Work	Literature review about the subject
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Project	2	4	0	8
Midterm Examination	1	5	1	6
Final Examination	1	7	1	8
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 introduction to Agricultural Mechanization Management
2	To be able to organize a mechanization plan
3	To be able to calculate economic time usage
4	To be able to gain the ability of doing economical analysis and comparing different economical outcomes

Programme Outcomes (Agricultural Machinery)

1	To be able to comprehend social, cultural and societal responsibility and keep up with national and international up contemporary issues and developments.
2	To be able to be bounded to the Atatürk nationalism, adopted to the national, ethic, spiritual and cultural value of the Turkish Nation, opened to the universal and modern development, adopted the richness, deep seated and productive properties of the Turkish language, having language sympathy and awareness, having reading pleasure and habit and having sufficient foreign language for their vocational necessities, In the directions of the Atatürk Principles and Revolutions,
3	To be able to recognize the basic computer hardware and operating systems , knowledge of internet usage being able to prepare documents, electronic tables and presentation by using office programs.
4	To be able to be aware of ethic responsibility and vocational profession and to have consciousness of a lifelong learning concept
5	To be able to know current vocational issues and to have skill to define and interpret them.
6	To be able to be aware of the universal and social dimensional effects in engineering solutions, and to be able to have knowledge about entrepreneurship and newfangledness.
7	To recognize the materials which used for preparation of agricultural machinery and have skill for the choosing the appropriate material.
8	To be able to acquire the skill of using the necessary tools and equipments which are used in the production and maintenance of agricultural machinery.
9	To be able to prepare the agricultural tools and machineries, to determine the breakdowns and to do periodic maintenance and repairs.
10	To be able to comprehend the picture of the agricultural tools and machinery and their fabrication , and have the skill to draw them via computer.
11	To be able to assemble and to combine machinery pieces by using demountable and nondetachable junction methods.
12	To be able to have the skill of resistance calculations of the agricultural tool and machinery on computer.
13	To be able to test and control the suitability of new machines and mechanic equipment to the definite standarts and technical properties.
14	To be able to have general knowledge of agricultural production.
15	To be able to have knowledge of basic sciences.

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4
P4	3	3	3	3
P5	4	5	4	5
P6	3	5	5	4

