



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Choosing Material On Agricultural Machinery Fabrication							
Course Code		ZTM613		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	7	Workload	172 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		The aim of the course is to classification of materials, supplies and TSE standards, provisions, important properties of materials commonly used agricultural machinery, materials selection criteria for the selection of materials and equipment issues that require the student to inform the property.							
Course Content		In this course, materials classification, selection, material properties, testing of materials and manufacturing techniques, material properties and selection of commonly used agricultural machines are covered.							
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	60

Recommended or Required Reading

1	Malzeme Bilgisi. Erdoğan D., 2003. Ankara Üniversitesi, Ziraat Fakültesi, Yayın No:1537,Ders kitabı:490
2	Malzeme Bilgisi ve muayenesi. Wolfgang W ve Anık S, 1984. Birsen Yayınevi. ISBN: 975-511-002-X Çağaloğlu, İstanbul

Week	Weekly Detailed Course Contents	
1	Theoretical	Classification of materials and standards
	Preparation Work	Research
2	Theoretical	Classification of materials and standards
	Preparation Work	Research
3	Theoretical	Materials, mechanical properties (tensile, compression properties of hardness)
	Preparation Work	Research
4	Theoretical	Other features of the materials and thermal properties
	Preparation Work	Research
5	Theoretical	Properties of metallic materials and manufacturing techniques
	Preparation Work	Research
6	Theoretical	Properties of metallic materials and manufacturing techniques
	Preparation Work	Research
7	Theoretical	Properties of plastic materials and manufacturing techniques
	Preparation Work	Research
8	Intermediate Exam	Midterm exam
9	Theoretical	Characteristics of composite materials and manufacturing techniques
	Preparation Work	Research
10	Theoretical	Testing of Materials
	Preparation Work	Research
11	Theoretical	Testing of Materials
	Preparation Work	Research
12	Theoretical	Characteristics of the materials used in farm machinery
	Preparation Work	Research
13	Theoretical	Characteristics of the materials used in farm machinery
	Preparation Work	Research
14	Theoretical	Choice of materials for Agriculture
	Preparation Work	Research
15	Theoretical	Choice of materials for Agriculture



15	Preparation Work	Research
16	Final Exam	Midterm exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	3	70
Assignment	14	0	3	42
Term Project	1	0	20	20
Midterm Examination	1	16	2	18
Final Examination	1	20	2	22
Total Workload (Hours)				172
[Total Workload (Hours) / 25*] = ECTS				7
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	The ability to recognize materials
2	The ability to select the appropriate material standards
3	The ability to recognize materials used in farm machinery
4	Apply the methods of material inspection
5	Apply the methods of material inspection

Programme Outcomes (Agricultural Machinery Doctorate)

1	Identification, formulation and solving the problems in the field of Agricultural Machinery
2	The ability to use modern engineering tools and techniques
3	The ability to use the information, which is obtained by following the scientific and technological developments, in the academic life and practice.
4	The ability to evaluate multi-faced relationship between them by understanding interaction among agricultural technology, soil, plants and animals
5	Professionalism and ethical responsibility
6	The ability to work in disciplinary and multi-disciplinary teams
7	The ability to communicate effectively
8	The ability to do research for accessing information and to use data base and other resources
9	The ability to do analyze and interpret the experimental results and the design of experiment
10	The ability to identify and interpret knowledge of current professional issues and events
11	The ability to get aware the universal and social effects of engineering solutions and applications
12	Accordance with the requirements of science and technology, ability to use scientific knowledge creative

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

	L1	L2	L3	L4
P1	5	5	5	5
P2	5	5	5	5
P3	4	4	4	4
P4	5	5	5	5
P5	4	4	4	4
P6	5	4	4	4
P8	5	5	5	5
P9	5	5	5	5
P10	5	5	5	5
P11	5	5	5	5
P12	5	5	5	5

