



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Dairy Milking Systems and Test Methods							
Course Code		ZTM553		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	8	Workload	200 ( <i>Hours</i> )	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		To inform students about the methods of milking systems and testing milking systems.							
Course Content		Types and characteristics of mobile milking machines, types of fixed milking and systems types and their properties, Examination of the components of milking plant, Structural and functional tests of milking machines and facilities, milking test procedure, examples of use of new technologies in milking systems.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, Individual Study					
Name of Lecturer(s)		Lec. Nurettin TOPUZ							

### Assessment Methods and Criteria

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

### Recommended or Required Reading

1	Bilgen, H. : H. Öz: 2006. Süt Sağım Makine ve Tesislerinin Standartlara Uygun Kontrolleri, E.Ü.Z.F. Tarım Makinaları Bölümü Yayınları No: 6, Ege Üniversitesi Basımevi, Bornova-İzmir, 77 s.
2	Bilgen, H. 2019. Süt Sağım Makinalarının ( Robotik Sağım sistemleri dahil) Standartlara uygun Kontrolü. EÜZF Tarım makinaları ve Teknolojileri Mühendisliği Bölümü Yayınları No:15
3	3) Lecture notes (international articles and reviews on the subject)

Week	Weekly Detailed Course Contents	
1	Theoretical	General information about milking and milking systems
2	Theoretical	Parts and tasks of the milking system
3	Theoretical	Practice the parts and tasks that make up the milking system
4	Theoretical	Application of types of moving type milking machine types
5	Theoretical	Stationary milking facilities
6	Theoretical	Application of stationary milking facilities and pieces
7	Intermediate Exam	Midterm Exam
8	Theoretical	Examination of a dairy practice
9	Theoretical	Experimental methods of milking systems
10	Theoretical	Introduction of equipment used in milking system experiments
11	Theoretical	Theoretical explanation of how the experiment of milking system is done
12	Theoretical	Experimentation of the milking system
13	Theoretical	Information about herd management program
14	Theoretical	Application of modern technology in the use of milking facilities
15	Final Exam	Final Exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	6	6	15	126
Term Project	1	1	7	8
Midterm Examination	1	25	1	26
Final Examination	1	39	1	40
Total Workload (Hours)				200
[Total Workload (Hours) / 25*] = ECTS				8

\*25 hour workload is accepted as 1 ECTS



**Learning Outcomes**

1	To have knowledge about milking.
2	To recognize and learn milking systems.
3	To learn how milking systems tests are done.
4	To learn the problems encountered in milking systems.
5	To learn the use of new technologies in milking systems.

**Programme Outcomes (Agricultural Machinery Master)**

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	L5
P1	3	3	3	3	3
P2	5	5	5	5	5
P3	4	4	4	4	4
P4	4	4	4	4	4
P5	3	3	3	3	3
P6	4	4	4	4	4
P7	3	3	3	3	3
P8	4	4	4	4	4
P9	5	5	5	5	5
P10	3	3	3	3	3
P11	2	2	2	2	2
P12	3	3	3	3	3

