

# AGRICULTURAL MECHANIZATION

1	Course Title:	AGRICULTURAL MECHANIZATION	
2	Course Code:	TRMZ101	
3	Type of Course:	Compulsory	
4	Level of Course:	Short Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	4.00	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:		
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç.Dr. YAHYA ULUSOY	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Doç.Dr. YAHYA ULUSOY	
17	Website:		
18	Objective of the Course:	To introduce the basic tools used in the mechanization of agricultural production, giving information about where and how to use these tools and explaining examples to teach the basic methods for solving problems related to these	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	To be able to understand the importance of the mechanization in agriculture
		2	To be able to define the relationship between mechanization and its effects on work and yield productivity
		3	To be able to create a solution for any kind of problem in any production chain of mechanization
		4	To be able to calculate the work efficiency of any kind of agricultural machinery
		5	To be able to understand the interaction between agricultural application and its impact to the environment
		6	To be able to understand the combination of the Human-Machine-Energy in mechanization
		7	To be able to know our country's agricultural structure and to predict future developments
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21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	Description of the course, explaining the activities and operations of the course		

2	Definition of the agricultural mechanization and its elements	
3	The agricultural mechanization level of Turkey and word countries and the future of the agricultural technology	
4	Soil knowledge and Soil physical properties	
5	Study of crop production techniques	
6	Study of Agricultural Energy Resources	
7	Tractors and their basic features	
8	Technical properties of soil processing machines	
9	Repeating courses and midterm exam	
10	Seedling, planting and fertilizing machinery	
11	Harvesting machines	
12	Knowledge of measuring (Calipers and Micrometers)	
13	Basic electrical knowledge	
14	General assessment	

22	Textbooks, References and/or Other Materials:	R. KESKİN, D. ERDOĞAN, 1984. Tarımsal Mekanizasyon. A.Ü. Ziraat Fakültesi Yayınları: 927, Yardımcı Ders Kitabı No: 262, A.Ü. Basımevi, ANKARA.  Prof. Dr. Kamil Alibaş. Ölçme Ve Değerlendirme. U.Ü.
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Activites			Number	Duration (hour)	Total Work Load (hour)
Theoretical			14	3.00	42.00
Practicals/Labs			0	0.00	0.00
Midterm Exam			1	3.00	30.00
Homeworks			5	5.00	25.00
Home work-project			5	0.00	0.00
Field Studies			0	0.00	0.00
Midterm exams			7	9.00	9.00
Others			0	0.00	0.00
Final Exams			1	10.00	10.00
Total Work Load					116.00
Total work load/ 30 hr			100.00		3.87
ECTS Credit of the Course					4.00

24	ECTS / WORK LOAD TABLE
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25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	5	4	4	4	4	4	3	3	0	0	0	0	0	0	0
ÖK2	5	4	5	5	4	5	5	5	5	4	4	0	0	0	0	0
ÖK3	4	4	4	4	5	5	5	5	4	4	4	0	0	0	0	0

ÖK4	3	3	3	3	3	3	3	3	3	2	1	0	0	0	0	0
ÖK5	4	4	5	4	4	4	4	4	4	3	3	0	0	0	0	0
ÖK6	5	5	5	5	5	5	5	5	4	4	3	0	0	0	0	0
ÖK7	4	4	4	4	5	4	5	5	5	4	4	0	0	0	0	0
LO: Learning Objectives    PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			