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:	Prof. Dr. Yahya Ulusoy	
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.	
16	Contact information of the Course Coordinator:	Prof.Dr. YAHYA ULUSOY yahyau@uludag.edu.tr	
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:	To teach basic agricultural mechanization	
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 wok 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
		8	
		9	
		10	
21	Course Content:		

Course Content:

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.

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self Study and preperation	10	3.00	30.00
Homeworks	5	5.00	25.00
Projects	0	0.00	0.00
Quiz	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	9.00	9.00
Final Exam	1	60.00	60.00
Others	0	0.00	0.00
Final Exams	1	10.00	10.00
Contribution of Term (Year) Learning Activities to		40.00	
Total Work Load			116.00
Total work load/ 30 hr			3.87
Contribution of Final Exam to Success Grade		60.00	
ECTS Credit of the Course			4.00

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm exams	1	40.00
Final Exam	1	60.00

Measurement and Evaluation Techniques Used in the Course	Measurement and evaluation is carried out according to the priciples of Bursa uludag University Associate and Undergraduate Education Regulation.

24	**ECTS / WORK LOAD TABLE**

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**