

AGRICULTURAL ENERGY AND ENVIRONMENT

1	Course Title:	AGRICULTURAL ENERGY AND ENVIRONMENT	
2	Course Code:	TRMZ208	
3	Type of Course:	Compulsory	
4	Level of Course:	Short Cycle	
5	Year of Study:	2	
6	Semester:	4	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	2.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
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 , 2942370 U.Ü. Teknik Bilimler Meslek Yüksek Okulu Tarım Mak. Prog. Görükle Kampüsü	
17	Website:		
18	Objective of the Course:	to generate ideas for solutions in agriculture energy and emerging energy needs environment interaction and to teach the solution for environmental problems	
19	Contribution of the Course to Professional Development:	it is one of the main lessons to be known.	
20	Learning Outcomes:		
		1	To understand the relationship of energy and environmental problems in agriculture
		2	Recognition of the major pollution sources that create environmental problems
		3	To understand the effects of environmental problems in agricultural ecosystems,
		4	Gaining the ability to distinguish the effects of agricultural activities on the environment,
		5	Ability to use renewable energy resources to gain recognition and for different purposes,
		6	Gaining the ability to comprehend the benefits of agriculture and energy
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	

1	The course proceeds, and grades on a weekly program to meet and learn about the program	
2	to view interaction perspective in Agriculture, energy use and environmental	
3	Agricultural production, energy use and environmental pollution	
4	Renewable energy types and classification	
5	Solar energy and the use for agricultural purposes	
6	Wind Energy and the use for agricultural purposes	
7	The use of geothermal energy, and agricultural purposes	
8	Repetition of a course and Midterm exam	
9	The use of hydraulic energy and agricultural purposes	
10	Types of renewable energy from agriculture	
11	Energy from biomass and biogas production in agriculture	
12	Biodiesel production and use of biodiesel in vehicles	
13	The use of energy in agriculture and ethanol production	
14	General evaluation	

Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		13	3.00	39.00
Practicals/Labs		0	0.00	0.00
Self study and preparation		5	6.00	30.00
Homeworks		1	10.00	10.00
Midterm Exam	1	20.00	0.00	0.00
Field Studies		0	0.00	0.00
Midterm Exam	1	20.00	8.00	8.00
Others		0	0.00	0.00
Final Exams	3	100.00	8.00	8.00
Total Work Load				95.00
Success Grade				3.17
ECTS Credit of the Course				3.00
Total		100.00		
Measurement and Evaluation Techniques Used in the Course		Measurement and evaluation is carried out according to the principles of Bursa uludag University Associate and Undergraduate Education Regulation.		

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	4	4	4	0	3	4	4	4	4	4	4	0	0	0	0	0
ÖK2	3	3	3	3	2	2	3	3	3	3	3	0	0	0	0	0

ÖK3	2	3	3	2	3	3	2	2	3	2	2	0	0	0	0	0
ÖK4	3	2	2	3	3	3	3	3	3	3	2	0	0	0	0	0
ÖK5	4	3	3	3	2	4	2	2	2	2	2	0	0	0	0	0
ÖK6	3	2	2	2	2	1	2	1	1	1	1	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			