	ENERGY	USE	IN AGRICULTURE							
1	Course Title:	ENERG	Y USE IN AGRICULTURE							
2	Course Code:	BSM5017								
3	Type of Course:	Optional								
4	Level of Course:	Second	Second Cycle							
5	Year of Study:	1	1							
6	Semester:	1	1							
7	ECTS Credits Allocated:	6.00	6.00							
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Prof. Dr. ALİ VARDAR								
15	Course Lecturers:	Yok								
16	Contact information of the Course Coordinator:	e-posta : alibas@uludag.edu.tr Telefon: 0 224 2941601 Adres: Bursa Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA								
17	Website:									
18	Objective of the Course:	Some energy issues is given in more details in this course which is not given in Undergraduate education								
19	Contribution of the Course to Professional Development:	It contributes to the student's understanding of energy issues used in agriculture.								
20	Learning Outcomes:									
		1	To make students aware of the importance of energy for our country and for the world, to inform students about the importance of energy saving.							
		2	To teach what alternative energy means and how to make use of alternative energies.							
		3	To teach technologies which are used in the production of solar, wind and hydraulic energy?							
		4	To teach geothermal energy and the techniques to make use of this energy.							
		5	They should know the importance of energy. To teach energies which are produced from organic-rooted substances such as biomass,							
		6	To teach biogas and their production technologies.							
		7	To teach the production technologies and fuel use capabilities of organic-rooted energy substances such as biodiesel and alcohol, which could be an alternative to petrol fuel.							
		8	To teach Nuclear and hydrogen energy and their production technologies							
		9								
		10								
21	Course Content:									
Course Content:										

Week	The	Theoretical								Practice									
1		The definition and classification of energy and statistics of energy.																	
2	Sola	Solar energy and its technology																	
3	Solar energy and its technology																		
4	Winc	Wind energy and its technology																	
5	Winc	d ene	ergy a	nd its	techn	ology													
6	Hydr	aulic	ener	gy and	d tech	nology													
7	Hydr	aulic	ener	gy and	d tech	nology													
8	Biom	nass	energ	jy and	techr	nology													
9	Biom	nass	energ	y and	techr	nology													
10	Geot	thern	nal en	ergy a	and te	chnolo	gy												
11	Nucl	ear e	energy	/ and t	echno	ology,													
12	Energy transformation in agricultural products,																		
13	Optimization of energy production																		
14	Effic	cienc	y of e	nergy	and e	energy	saving	gs.											
22	<b>22</b> Textbooks, References and/or Other Materials:									-Prof. Dr. Kamil ALİBAŞ'ın ders notları 120 sayfa (yayınlanmamış) -Prof. Dr. Güngör YAVUZCAN 1994. Enerji Teknoloji A.Ü. Ziraat Fakültesi Yayını. Yayın No:1324, Ders kitabı:383 (117s)									
	Activites									Numb	ber			ition (	,	Total Work Load (hour)			
Theore	eoretical R									14				3.00			42.00		
Practica										)			0.00		0.00				
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Others	unon		nare	xam io	5000	cess G	race			) <u>0.00</u>			0.00		0.00				
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ECTS (					UAD											6.00			
25				CON	TRIB	BUTIO	N OI			RNING OUTCOMES TO PROGRAMME JALIFICATIONS									
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16		
ÖK1	3	3	2	2	2	4	1	1	5	2	2	2	4	0	0	0	0		
ÖK2	3	3	2	2	2	4	1	1	5	2	2	2	4	0	0	0	0		
ÖK3	3	3	2	2	3	4	1	1	5	2	2	2	4	0	0	0	0		
ÖK4	2	4	2	2	2	4	1	1	5	2	2	2	4	0	0	0	0		

ÖK5	4	2	1	2	4	1	1	5	2	2	2	4	0	0	0	0
ÖK6	4	4	3	3	4	1	1	5	3	3	2	4	0	0	0	0
ÖK7	4	4	3	3	4	1	1	5	3	3	2	4	0	0	0	0
ÖK8	4	4	3	3	4	1	1	5	3	3	2	4	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ution				2 Iow		3	Medi	um	4 High			5 Very High			