	AGRICULTURAL A	APPLIC	CATIONS OF WIND ENERGY						
1	Course Title:	AGRICU	LTURAL APPLICATIONS OF WIND ENERGY						
2	Course Code:	BSM504	8						
3	Type of Course:	Optional							
4	Level of Course:	Second (Cycle						
5	Year of Study:	1							
6	Semester:	2							
7	ECTS Credits Allocated:	6.00							
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. ALİ VARDAR							
15	Course Lecturers:	YOK							
16	Contact information of the Course Coordinator:	e-posta: dravardar@uludag.edu.tr Telefon: 0 224 2941605 Adres: Bursa Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA							
17	Website:								
18	Objective of the Course:	Today, renewable energy sources, which are taking firm steps towards becoming an alternative to fossil-based energies, attract the attention of people from almost every branch. In this context, the aim of this course is to provide the student with the opportunity to benefit effectively from the knowledge he / she obtained on solar energy applications by creating a solid foundation on the basic concepts and principles of climate change and solar energy.							
19	Contribution of the Course to Professional Development:		It contributes to the recognition of solar energy systems and renewable energy systems to be applied in agricultural fields.						
20	Learning Outcomes:								
		1	Understanding the importance of the concept of energy and the effects of fossil-based energy resources on the world;						
		2	To be able to analyze the positive and negative aspects of renewable energy sources;						
		3	To be able to understand the different application areas of solar energy and to develop solar energy based energy solutions for a facility that needs energy;						
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21	Course Content:								
		Со	urse Content:						
Week Theoretical Practice									

	lates deserting and the circumstance of the		Analysis of sympoteticus about the leases						
1	Introduction and the importance of th concept	e energy	· .						
2	Energy sources and classification		Giving homework topics and informing						
3	Climate change and global warming		Examination of visuals and videos explaining the effects of global warming and climate change						
4	Renewable energy sources and their and negative aspects	positive	Examination of visuals and videos describing renewable energy sources						
5	Solar radiation theory		Solar radiation calculations						
6	Solar energy systems		Solar system selection and design						
7	Solar drying, greenhouse heating, co and electricity generation	oling	Solar drying, greenhouse heating, cooling and electricity generation calculations						
8	Concentrated solar energy systems		Solar system selection and design						
9	Solar thermal systems		Solar system selection and design						
10	Photovoltaic technology		Solar system selection and design						
11	Solar radiation measurement		Solar radiation measurement application						
12	Güneş ışınım ölçüm uygulaması		Photovoltaic plant calculations						
13	Photovoltaic plant design		Photovoltaic plant design application						
14	An overview		Project reviews						
22	Textbooks, References and/or Other Materials:		 Quaschning, V., 2011. Regenarative Energiesysteme, Hanser Verlag, München. Quaschning, V., 2011. Understanding Renewable Energy Systems, Earthscan, London. Mertens, K., 2011. Photovoltaik, Hanser Verlag, München. 						
23	Assesment								
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT						
Midtern	n Exam	0	0.00						
Quiz		0	0.00						
Home v	vork-project	0	0.00						
Final Ex	xam	1	100.00						
Total		1	100.00						
Contrib Succes	ution of Term (Year) Learning Activities s Grade	es to	0.00						
Contrib	ution of Final Exam to Success Grade	Э	100.00						
Total			100.00						
Measur Course	rement and Evaluation Techniques Us	sed in the	The effect of the final exam on the course-passing grade is 100%.						
24	ECTS / WORK LOAD TABLE								

Number	Duration (hour)	Total Work Load (hour)		
14	2.00	28.00		
14	2.00	28.00		
14	6.00	84.00		
2	10.00	20.00		
1	10.00	10.00		
0	0.00	0.00		
0	0.00	0.00		
0	0.00	0.00		
1	10.00	10.00		
		180.00		
		6.00		
		6.00		
	14 14 14 2 1 0 0	14 2.00 14 2.00 14 6.00 2 10.00 1 10.00 0 0.00 0 0.00 0 1 10.00		

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	2	4	3	3	4	2	3	4	5	3	4	3	0	0	0	0
ÖK2	4	4	3	5	3	2	4	3	4	3	2	4	0	0	0	0
ÖK3	5	2	3	4	4	3	4	3	2	1	4	3	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low		3 Medium			4 High			5 Very High					