	AGRICULTURAL A	PPLIC	CATIONS OF WIND ENERGY						
1	Course Title:	AGRICU	LTURAL APPLICATIONS OF WIND ENERGY						
2	Course Code:	BSM5048							
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	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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		10							
21	Course Content:	Course Content:							
		Co	ourse Content:						
Week	Theoretical Practice								

			LO: L	earr	ning C	bjec	tive	s F	Q: P	rogra	m Qu	alifica	tions	5			
OK3	5	2	3	4	4	3	4	3	2	1	4	3	0	0	0	0	
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ÖK1	2	4	3	3	4	2	3	4	5	0 3	4	3	3 0	0	0	0	
	PG	1 PQ	2 PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16	
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																	
24	ECIS	/ ₩₩		UAL	TAD	LE											
ECTS Credit of the Course						أمل	6.00										
Metaswerkenad/ndoEvaluation Techniques Used in the						e Th	The effect of the final exam on the course-						rade is				
Total W											10.00			180.00			
	Aners On Final Exam to Success Grade						-110	100.00			10.00			10.00			
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Field St	Field Studies								0			0.00			0.00		
Plojet	Piropetersam 1						10	100.00			10.00			10.00			
Homeworks							2			10.00	10.00		20.00				
Self/study and preperation						0.0	0.99			6.00		84.00					
Practica	als/Lab	3							14 2.0			2.00	28.00		28.00		
Theoretical R							14 2.00				28.00						
Activites						Number Duration (hour) Total We Load (he				Vork nour)							
22	Textbo Materia	Textbooks, References and/or Other Materials:						1. Ha 2. Er	 Quaschning, V., 2011. Regenarative Energiesysteme, Hanser Verlag, München. Quaschning, V., 2011. Understanding Renewable Energy Systems, Earthscan, London. Mortens, K., 2011. Photovoltaik, Hanser Verlag. 								
14	An ove	An overview					Pr	oject re	eviews								
13	Photov	hotovoltaic plant design					Pr	Photovoltaic plant design application									
12	Güneş	ışınım	ölçüm	uygul	aması			Pł	otovol	taic pla	ant calc	ulations					
11	Solar r	adiatio	n meas	urem	ent			Sc	lar rac	liation I	measur	ement a	applica	ition			
10	Photov	oltaic	technol	ogy				Sc	olar sys	stem se	election	and de	sign				
9	Solar t	nerma	systen	ns				Sc	lar sys	stem se	election	and de	sign				
8	Conce	oncentrated solar energy systems						Sc	Solar system selection and design								
7	Solar o	lar drying, greenhouse heating, cooling					Sc	Solar drying, greenhouse heating, cooling and electricity									
6	Solar e	lar energy systems					Sc	Solar system selection and design									
5	Solar r	lar radiation theory					Sc	lar rac	liation	calculat	ions						
4	Renew and ne	newable energy sources and their positive d negative aspects					e Ex	global warming and climate change Examination of visuals and videos describing renewable energy sources									
3	Climat	mate change and global warming					Ex	Examination of visuals and videos explaining the effects of global warming and climate change									
2	Energy	Energy sources and classification					Gi	Giving homework topics and informing									
1	Introdu concer	ction a t	and the	impor	tance of	of the	energ	y Ar	Analysis of expectations about the lesson								

Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
ution					
Level:					