

Fizik Bölümü / PHYSICS /						
Course Code	Course Name	Teorical	Practice	Laboratory	Credits	ECTS
FZK-4032	Global Warming, Ecology and Energy Politics	2.00	2.00	0.00	3.00	7.00
Course Detail						
<b>Course Language</b>	: Turkish					
<b>Qualification Degree</b>	: Bachelor					
<b>Course Type</b>	: Optional					
<b>Preconditions</b>	: Not					
<b>Objectives of the Course</b>	: Understanding to Global Warming, Ecology and Energy Politics					
<b>Course Contents</b>	: Energy production and its uses, fossil fuels and the advantages/disadvantages of fossil fuels, Global warming modeling and the greenhouse effect, the ecological impacts of energy consumption, energy production and consumption policies, management of energy resources as an international power, distribution and use of energy resources behind the world peace, national and international power generation and consumer awareness are the main issues that described in the course					
<b>Recommended or Required Reading</b>	: 1-) Davis, D.C., and Davis, D.H., (2005), Energy Politics, Springer. 2-) Malon, K., (2005), Renewable Energy Policy and Politics, CRC Press.					
<b>Planned Learning Activities and Teaching Methods</b>	: Oral lectures with interactive discussions, Homework, Applications, Practice					
<b>Recommended Optional Programme Components</b>	: Current research topics for student.					
<b>Instructors</b>	: Prof. Dr. Caner Çiçek					
<b>Instructor's Assistants</b>	: Non					
<b>Presentation Of Course</b>	: Face to Face					

Course Outcomes	
<b>Upon the completion of this course a student :</b>	
1	Gained knowledge to understand and explain natural phenomena to interpretate and analyse of the problems
2	Obtaining ability to formulate and solve of the problems related to field
3	Having ability to evaluation and analyses of the data and desing and applicate related to project
4	Having ability to correlate knowledge in interdisiplinary manner and application in related fields.
5	Gained knowledge and application skills in association with a variety of technology and industrial applications

Preconditions						
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Weekly Contents					
	Teorical	Practice	Laboratory	Preparation Info	Teaching Methods
1.Week	*Introduction.	*Introduction.			
2.Week	*Global warming and its importance.	*Global warming and its importance.			
3.Week	*climate science and meteorology.	*iklim bilim ve meteoroloji .			
4.Week	*Buharlaşma,su ve rüzgarlar.	*Evaporation, water and winds.			
5.Week	*Ocean currents, and Warming.	*Ocean currents, and Warming.			
6.Week	*Major climatic events and warming	*Major climatic events and warming			
7.Week	*Factors affecting the climate.	*Factors affecting the climate.			
8.Week	*Examining past climates	*Examining past climates			
9.Week	*Glacier warming and climate chronology.	*Glacier warming and climate chronology.			
10.Week	*Greenhouse effect and carbon hazard	*Greenhouse effect and carbon hazard			
11.Week	*Ecology and warming	*Ecology and warming			
12.Week	*Economic energy production and its use.	*Economic energy production and its use.			
13.Week	*Industrial energy demand-supply policies.	*Industrial energy demand-supply policies.			
14.Week	*Sustainable energy management.	*Sustainable energy management			

Assesment Methods %	
1	Md Term Exam 1 : 40.000
2	Final : 60.000

ECTS Workload			
Activities	Count	Time(Hour)	Sum of Workload
Individual study before lecture	14	4.00	56.00

