

DEPARTMENT OF ENERGY SCIENCE AND TECHNOLOGY COURSE SYLLABUS

Course Details										
Code				Α	Academic Year			Semester		
EBT406				4	4			8	8	
Title				Т		Α	L	ECTS		
Energy Management				3		2	0	6		
Language	German	German								
Level	Undergraduate	X	Graduate			F	ostgra	duate		
Department / Program	Energy Science and	Energy Science and Technology								
Forms of Teaching and Learning	Face-to-face									
Course Type	Compulsory		х		Elective					
Objectives	Students gain in-depth knowledge about the legal framework for energy supply. They learn about national and international energy policies as well as political decision-making processes at various levels. They understand the processes and procedures related to the implementation of infrastructure measures in the energy sector and the social processes crucial for energy supply.									
Content	National and international energy law and policy are examined. Energy management legislation and systems are demonstrated. National and international energy markets and infrastructure measures are studied. Plant construction and connections, as well as social issues related to energy, are addressed.									
Prerequisites	None									
Coordinator	Dr. Osman Sinan SÜSLÜ									
Lecturer(s)	Dr. Osman Sinan SÜSLÜ									
Assistant(s)	None									
Work Placement	None									
Recommended or Required R	eading									
Books / Lecture Notes	 B.L.Capehart, W.C.Turner, W.J. Kennedy, "Guide to Energy Management," Fairmont Press, 7th edition, 2012. S.Doty, W.C.Turner, Energy Management Handbook, Fairmont Press, 2009. F.Kreith, D.Y.Goswami, Energy Management and Conversation Handbook, CRC Press, 2008. 									
Other Sources	None									
Additional Course Material										
Documents										
Assignments										
Exams	1 Midterm exam + 1 Final exam									



Projects

_

DEPARTMENT OF ENERGY SCIENCE AND TECHNOLOGY **COURSE SYLLABUS**

Course Composition		
Mathematics and Basic Sciences	-	%
Engineering	20	%
Engineering Design	20	%
Social Sciences	-	%
Educational Sciences	-	%
Natural Sciences	20	%
Health Sciences	-	%
Expert Knowledge	40	%
Assessment		
Activity	Count	Percentage (%)
Midterm Exam	1	40
Quiz	-	-
Assignments	-	-
Attendance	-	-
Recitations	-	-

-

Final Exam	1	60						
		100						
ECTS Points and Work Load								
Activity	Count	Duration	Work Load (Hours)					
Lectures	14	2	28					
Self-Study	14	6	84					
Assignments	-	-	-					
Presentation / Seminar Preparation	-	-	-					
Midterm Exam	1	2	2					
Recitations	14	2	28					
Laboratory	-	-	-					
Projects	1	36	36					
Final Exam	1	2	2					
	180							
	6							
Learning Outcomes								
1								

L	Students acquire basic knowledge about efficient energy use in this course.	

2 Students gain knowledge about the legal framework for energy supply.



DEPARTMENT OF ENERGY SCIENCE AND TECHNOLOGY COURSE SYLLABUS

3	Students learn about the current energy policy at national and international levels as well as various levels of political decision-making processes.
4	Students are knowledgeable about the processes and procedures for implementing infrastructure measures in the energy sector and learn about the social processes important for energy supply.
Weekly Conter	nt
1	National and International Energy Law and Policy 1
2	National and International Energy Law and Policy 2
3	National and International Energy Law and Policy 3
4	Energy Management Legislation and Systems 1
5	Energy Management Legislation and Systems 2
6	Energy Management Legislation and Systems 3
7	Automation Systems
8	National and International Energy Markets 1, Midterm Exam
9	National and International Energy Markets 2
10	Infrastructure Measures
11	Power Plant Construction and Connections
12	Social Issues Related to Energy 1
13	Social Issues Related to Energy 2
14	Socioeconomic Impact of Energy
15	Final Exam

Contribution of Learning Outcomes to Program Objectives (1-5)

	P1	P2	P3	P4	P5	P6	P7	P8	P9
1	5	4	5	5	4	4	5	4	5
2	4	5	4	4	5	5	4	4	5
3	5	5	5	4	4	5	4	5	4
4	4	5	4	5	4	5	5	4	4
Contribution Level 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High									
Compiled by:	Compiled by: Dr. Osman Sinan SÜSLÜ, Dr. Anıl Can DUMAN								
Date of Compilation:13.04.2024									