DEPARTMENT OF ENERGY SCIENCE AND TECHNOLOGIES
COURSE SYLLABUS

Course Details				
Code	**Academic Year**			**Semester**
EBT403	4			7
Title	**T**	**A**	**L**	**ECTS**
Energy Economy and Politics	2	2	0	6

Language	German					
Level	**Undergraduate**	**X**	**Graduate**		**Postgraduate**	
Department / Program	Energy Science and Technology					
Forms of Teaching and Learning	Face-to-face					
Course Type	**Compulsory**		**Elective**	**X**		
Objectives	The course on Energy Economics and Policies aims to examine and understand the economic interactions in the energy sector and the role of policies. It explores the economic impacts of the production, distribution, consumption, and pricing of energy resources, with the goal of teaching students the fundamental concepts of the energy sector and their economic contexts. Additionally, the course emphasizes that the formulation and implementation of energy policies should consider not only economic factors but also social and environmental dimensions, aiming to help students grasp the multidimensional nature of energy policies.					
Content	The course addresses the fundamental concepts of the energy sector by examining the production, distribution, and consumption of energy resources and evaluating the economic impacts of energy pricing. It also covers the formulation and implementation of energy policies, incorporating social, environmental, and economic factors, aiming to convey the multidimensional nature of energy policies to students. The course focuses on the economic impacts of energy supply and demand, analyzes competitive energy markets, and examines the influence of energy policies on sustainability goals.					
Prerequisites	-					
Coordinator	Assist. Prof. Dr. Osman Sinan SÜSLÜ					
Lecturer(s)	Assist. Prof. Dr. Osman Sinan SÜSLÜ, Dr. Helena Merja TÖLLE					
Assistant(s)						
Work Placement	None					

Recommended or Required Reading	
Books / Lecture Notes	Andreas Löschel; Dirk Rübbelke; Wolfgang Ströbele, Energiewirtschaft Einführung in Theorie und Politik, 2020, ISBN: 978-3-11-055632-2
Other Sources	-

Additional Course Material

DEPARTMENT OF ENERGY SCIENCE AND TECHNOLOGIES
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Documents	-
Assignments	-
Exams	-

Course Composition		
Mathematics und Basic Sciences		%
Engineering	60	%
Engineering Design		%
Social Sciences	20	%
Educational Sciences		%
Natural Sciences	20	%
Health Sciences		%
Expert Knowledge		%

Assessment		
Activity	**Count**	**Percentage (%)**
Midterm Exam	1	40
Quiz	0	0
Assignments	2	20
Attendance	0	0
Recitations	0	0
Projects	0	0
Final Exam	1	40
	Total	**100**

ECTS Points and Work Load			
Activity	**Count**	**Duration**	**Work Load (Hours)**
Lectures	14	2	28
Self-Study	14	4	52
Assignments	4	10	40
Presentation / Seminar Preparation			
Midterm Exam	1	2	2
Recitations	14	1	14
Laboratory	14	2	28
Projects			
Final Exam	1	2	2
		Total Work Load	**168**
		ECTS Points (Total Work Load / Hours)	**6**

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Learning Outcomes	
1	Students learn about the complex relationships among the technical, economic, and political aspects of energy supply.
2	Students can understand the impacts of industrial companies on energy supply.
3	Students can identify the practical degrees of freedom and economic determinants of operational energy procurement.
4	Students can evaluate the effects of dynamic political framework conditions.

Weekly Content	
1	Fundamentals of Energy Economics
2	Energy Resources and Production
3	Energy Distribution and Consumption
4	Energy Pricing and Market Models
5	Definition and Importance of Energy Policies
6	Economic Factors in the Formulation of Energy Policies
7	Social and Environmental Dimensions of Energy Policies
8	Midterm Exam
9	Social and Environmental Dimensions of Energy Policies
10	Energy Supply and Demand
11	Competitive Energy Markets and Analysis
12	National and International Dimensions of Energy Policies
13	Future and Trends of Energy Policies
14	Use and Regulation of Energy Networks
15	Student Assignment Presentations
16	Final Exam

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

	P1	P2	P3	P4	P5	P6	P7	P8	P9
1	4	5	3	5	3	5	4	3	5
2	4	5	4	5	4	5	3	4	5
3	3	4	4	5	4	4	4	4	5
4	3	4	4	4	3	5	5	3	4

Contribution Level	1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High

https://obs.tau.edu.tr/oibs/bologna/progLearnOutcomes.aspx?lang=EN&curSunit=5706

Compiled by:	Res. Assist. Anıl Can DUMAN
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