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	Students learn about the complex relationships among the technical, economic, and political aspects of energy supply. They can understand the impacts of industrial companies on energy supply, identify practical degrees of freedom and economic determinants of operational energy procurement, and evaluate the effects of dynamic political framework conditions.							
Content	Introduction to Energy Industry, Energy Law, Introduction to Energy Policies, Energy Markets, Use and Regulation of Energy Networks, Characteristics of Electricity and Natural Gas Supply, Demand Side Management (DSM) Potential and Importance, Technical and Economic Aspects of Industrial Energy Supply.							
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	
Documents	-
Assignments	-
Exams	-

Course Composition		
Mathematics und Basic Sciences		%
Engineering	60	%

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Engineering Design		%
Social Sciences		%
Educational Sciences		%
Natural Sciences	40	%
Health Sciences		%
Expert Knowledge		%

Assessment

Activity	Count	Percentage (%)
Midterm Exam	1	40
Quiz	0	0
Assignments	0	0
Attendance	0	0
Recitations	0	0
Projects	0	0
Final Exam	1	60
	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	**166**
		ECTS Points (Total Work Load / Hours)	**6**

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.

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Weekly Content	
1	Introduction to Energy Industry
2	Energy Law
3	Energy Law
4	Energy Law
5	Introduction to Energy Policies
6	Introduction to Energy Policies
7	Energy Markets
8	Midterm Exam
9	Use and Regulation of Energy Networks
10	Use and Regulation of Energy Networks
11	Characteristics of Electricity and Natural Gas Supply
12	Demand Side Management (DSM) Potential and Importance
13	Technical and Economic Aspects of Industrial Energy Supply
14	Use and Regulation of Energy Networks
15	Use and Regulation of Energy Networks

Contribution of Learning Outcomes to Program Objectives (1-5)									
	P1	P2	P3	P4	P5	P6	P7	P8	P9
1	5	5	5	5	5	5	5	5	5
2	5	5	5	5	5	5	5	5	5
3	5	5	5	5	5	5	5	5	5
4	5	5	5	5	5	5	5	5	5

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	
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