



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Energy Economy							
Course Code		ECO318		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	6	Workload	150 (<i>Hours</i>)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		Give students a solid grasp of the markets and politics surrounding energy use.							
Course Content		Introduction: Definition of Energy, Conservation of Energy, Forms of Energy, Energy Resources and Classification of Energy, Human History of Energy, Nuclear Power, Renewable Energy Sources, Energy Efficiency and Energy Saving, Economic Analysis of Investment Projects.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study					
Name of Lecturer(s)									

Prerequisites & Co-requisites

ECTS Requisite	85
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Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	Levent AYDIN, Enerji Ekonomisi ve Politikaları, Seçkin Yayıncılık, 2014.
2	Daniel YERGIN, Petrol: Para ve Güç Çatışmasının Epik Öyküsü (Çev. Kamuran TUNCAY), İş Bankası Kültür Yayınları, 2003.

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction: Definition of Energy, Conservation of Energy, Forms of Energy, Energy Resources and Classification of Energy
2	Theoretical	Human History of Energy
3	Theoretical	Demand of Energy: Change in Energy Demand, Distribution of Demand on the Global Scale, Factors of Influencing Energy Demand
4	Theoretical	Supply of Energy: Energy Flows, Distribution of Primary Energy Sources on the Global Scale, Factors of Influencing Energy Supply
5	Theoretical	Price Formation in Competitive Market, Prices in Short and Long Term and Elasticities
6	Theoretical	Fossil Fuels (coal, oil, natural gas): Value Chain
7	Theoretical	Oligopoly Markets
8	Intermediate Exam	Midterm Examination
9	Theoretical	Nuclear Power, Renewable Energy Sources
10	Theoretical	Economic Analysis of Investment Projects
11	Theoretical	Energy Efficiency and Energy Saving
12	Theoretical	Energy and Environment Interaction: Externalities
13	Theoretical	Energy Policy, Sustainability
14	Theoretical	The Problem of Energy Deficit in the Turkey
15	Theoretical	General Assessment
16	Final Exam	Final Examination
17	Final Exam	Final Examination

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Reading	14	0	2	28
Individual Work	14	0	3	42
Midterm Examination	1	15	1	16



Final Examination	1	21	1	22
Total Workload (Hours)				150
[Total Workload (Hours) / 25*] = ECTS				6
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Lists energy sources.
2	Applies the mechanics of demand and supply for energy markets.
3	Explains societal and environmental impacts of energy use.
4	Participates meaningfully in discussions of energy policy and institutions.
5	Analyses energy markets and various types of government policies from a critical perspective.

Programme Outcomes (Economics)

1	It defines and evaluates the basic economic concepts, theories, and methods.
2	It offers a basic level of policy proposals towards current economic problems.
3	It analyzes in the context of economic and social events in a historical perspective.
4	It explains the role of economic actors (such as government, company, or household) in the economy.
5	It follows national and international economic indicators and developments and it uses economic knowledge and methods in different areas.
6	It provides methods, tools and techniques necessary for the modelling and analysis of economic data and evaluates outcomes accordingly.
7	It defines economic systems, decision-making, policies and problems and it provides feedback about them.
8	It benefits from other disciplines that contribute to economic basis and holds a basic knowledge of these disciplines.
9	It explains and comments on economic growth, development and productivity problems on basic grounds.
10	It provides sufficient know-how in sub-branches such as public economics, industry, agriculture, environment and natural resources, labor, knowledge and ownership of the economy, international finance, money, in political economy and econometrics.
11	It defines and evaluates the concept of business on basic grounds.
12	It provides a sufficient level of legal know-how that may be demanded from high skill labor in both public and private sectors.
13	It defines the role of innovation, creativity and technology in the dynamic global economy.
14	It shows skills that will be useful for future employment opportunities and the working environment.
15	It considers science as a rational individual with professional and ethical responsibility.

Contribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High

	L1	L2	L3	L4	L5
P1	4	3	4	3	3
P2	3	4	3	4	4
P3	3	4	3	3	4
P10	4	4	4	4	4

