



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Energy, Environment and Sustainability							
Course Code		CSAG645		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The aim of the course is to enable students to understand the relationship between energy and environment and sustainability concepts. In this context, the course aims to enable the students to comprehend the energy production and usage patterns, to understand the reasons of the technical / political / economic choices for energy and to evaluate the environmental effects of these choices.							
Course Content		Basic concepts of Global Warming, Greenhouse Gases, Pollution, Fossil Fuels and sustainability. Energy Production and Consumption Aspects, National and Global Models of Energy Supply and Usage. Energy sources, renewable and renewable energy technologies. Energy efficiency. Regional, national and global effects of energy.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion					
Name of Lecturer(s)		Assoc. Prof. Mehmet Metin DAM							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	.Mohammad Aslam Uqaili I Khanji Harijan "Energy, Environmentand Sustainable Development" SpringerWienNewYork, ISBN 978-3-7091-0108-7, 2012 Helper Book(s): Power Point presentation handouts and lecture notes Related links in internet
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Week	Weekly Detailed Course Contents	
1	Theoretical	Global warming, greenhouse gases, energy, environment and sustainability concepts
2	Theoretical	National and global energy supply and use
3	Theoretical	Fossil fuels and their effects
4	Theoretical	Renewable energy sources
5	Theoretical	Non-renewable energy sources
6	Theoretical	Energy security
7	Theoretical	Environment and Sustainability
8	Theoretical	Environment and Sustainability (Midterm)
9	Theoretical	Basic tools and techniques for assessing the environmental impact of energy
10	Theoretical	Local, regional and global environmental impacts of energy
11	Theoretical	Life Cycle Analysis
12	Theoretical	The relationship between energy, environment and sustainability
13	Practice	presentation
14	Practice	presentation

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Term Project	1	2	1	3
Reading	14	1	1	28
Individual Work	10	1	1	20
Midterm Examination	1	2	1	3



Final Examination	1	3	1	4
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To have knowledge about the field and to use this information
2	To be able to comment on issues related to the field
3	To be able to evaluate the political, legal, financial and administrative developments related to the field of public administration
4	To be able to develop solutions for management problems
5	To be able to monitor information technologies at the level required by the field
6	To be able to use information and communication technologies at the level required by the field
7	To be able to behave with public service responsibility
8	To gain self-learning skills and to maintain lifelong learning
9	To be able to take responsibility in social projects and activities with a consciousness that is sensitive to social, administrative and environmental problems
10	To be able to follow information in a foreign language and communicate with colleagues
11	To be able to think interdisciplinary on issues related to public administration

Programme Outcomes (Environmental Health Interdisciplinary Doctorate)

1	Equipped with advanced knowledge and skills related to research methods, data analysis and interpretation of research results in the development and application of environmental health theories;
2	who can take part in professional arrangements; contributes to the development of health related institutions;
3	Knows, interprets and comments on national and international environmental health legislation,
4	Organizasyon Assuming an effective role in environmental health organization and management,
5	To Equipped with the knowledge and skills necessary for the effectiveness of environmental health practices in the future;

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

	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
P1	4	4	5	5	5	2	3	1	5	3	5
P2	4	4	5	5	5	2	3	5	4	5	4
P3	4	4	5	5	5	2	3	3	3	3	5
P4	4	4	5	5	5	2	3	4	2	5	4
P5	4	4	5	5	5	2	3	5	1	5	4

