



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Energy Distribution							
Course Code		LYM526		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	5	Workload	127 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		This course aims to provide the basic knowledge about various types of energy distribution systems, to teach the fundamentals of thermal- fluid sciences, to examine the essential technology, processes and policies related to energy distribution. The energy distribution is discussed from a logistics management approach. Several energy resources are analyzed; their extraction and transportation processes are examined. Energy logistics related problems and alternative solution approaches are discussed. Students gain a better understanding of energy distribution in general, and production, consumption, and conservation of energy in particular.							
Course Content		This course provides an overview of the energy distribution systems. Management decision processes are discussed with a focus on economic issues and their relationship to operations planning models. The course also includes application of thermo-economic models and examining industry field practices.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Engin, N. (2010). Enerji kaynağı olarak doğalgaz ve Türkiye Özcan, Ç. (2011).
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Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction
2	Theoretical	Natural Gas Industry and Market
3	Theoretical	Distribution of Natural Gas
4	Theoretical	Natural Gas Case Study 1
5	Theoretical	Natural Gas Case Study 2
6	Theoretical	The Role of LNG
7	Theoretical	LNG Transportation
8	Theoretical	LNG Export & Import Case Studies
9	Intermediate Exam	Midterms
10	Intermediate Exam	Midterms
11	Theoretical	Oil: International Evolution
12	Theoretical	Global Distribution of Oil, Gas and Coal
13	Theoretical	Pipelines: Oil & Gas
14	Theoretical	Energy Security and Pipeline Politics
15	Theoretical	Renewable Energy Policies and Market Developments,
16	Final Exam	Finals

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	0	3	39
Individual Work	13	0	2	26
Midterm Examination	1	25	1	26



Final Examination	1	35	1	36
Total Workload (Hours)				127
[Total Workload (Hours) / 25*] = ECTS				5
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	explain the energy sector including oil, natural gas, nuclear energy and electricity.
2	distinguish the types of energy distribution systems
3	explain the management of energy supply and demand
4	model the supply of and demand for energy
5	explain cost minimization models considering pipeline taxes, min max rates, contracts, insurance, pricing and trade issues

Programme Outcomes (Logistics Management Interdisciplinary Master)

1	Being able to contribute to the institution the participant works for and the logistics sector by the use of the knowledge and abilities gained during the education period; and manage change in the institution and the sector;
2	Reaching a competency about contemporary business and technology applications in the area of logistics and supply chain management and analysis and strategy development methods;
3	Being able to create opportunities by combining supply chain management with information technologies and innovative processes by the use of the interdisciplinary courses the participants take;
4	Having the ability to develop creative solutions by working on global logistics and supply chain subjects and realizing these by the use of their project management knowledge;
5	Having the knowledge, abilities and capabilities required for effective logistics and supply chain management by the use of a problem and case analysis based learning;
6	Being able to examine logistics and supply chain processes with the management science viewpoint, analyze related concepts and ideas by scientific methods;
7	If continuing to work in the academia, having the necessary information on logistics applications; if continuing to work in the sector, having the necessary knowledge on conceptual subjects;
8	Being able to specify appropriate research questions about his/her research area, conduct an effective research with the use of necessary methods and apply the research outcomes in the sector or the academia;
9	Being able to follow the changes and developments in the sector the participant works in, in order to keep his/her personal and professional competence updated and develop himself/herself when necessary;
10	Have the necessary capabilities to pursue doctoral studies in national and foreign institutions

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	1	4	4	4	4
P2	3	3	3	3	3
P3	3	2	3	3	5
P4	2	2	2	4	3
P5		1	1	3	
P6	2	3	3	3	4
P7	2	3		5	5
P8	3	4	3	1	5
P9	2	4	3	3	3
P10	3	4		3	

