

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Multi Criteria I	Decision Maki	ng in Logistic	s				
Course Code		LYM528		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	5	Workload	127 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Co	ourse	The aim of this course is to provide the students with an introductory information about modeling of problems encountered in decision-making situations in uncertainty, risk, certainty and multinational environments, development of solution proposals and analysis.							
Course Content			sumptions an					over multiple altering order to choose	
Work Placement		N/A							
Planned Learning Activities and Teaching Methods			Methods	Explanation	(Presenta	tion), Discussion	on, Individual	Study	
Name of Lecturer(s	3)	Assoc. Prof. A	Algın OKURSO	ΟY					

Assessment Methods and Criteria							
Method	Quantity	Percentage (%)					
Midterm Examination	1	40					
Final Examination	1	60					

Recommended or Required Reading

Robert T. Clemen, Terence Reilly, Making Hard Decisions With Decision Tools, Duxbury Thomson Learning, 2001; ISBN13: 9780495015086; ISBN10: 0495015083.

Week	Neekly Detailed Course Contents						
1	Theoretical	Fundamentals of Decision: Elements of the decision problem					
2	Theoretical	Decision making process; Decision Environments					
3	Theoretical	Decision making in uncertain environment					
4	Theoretical	Decision making under risk					
5	Theoretical	Risk attitudes					
6	Theoretical	Decision Making with Decision Tree and Additional Information					
7	Theoretical	Decision tree, Bayes theorem					
8	Theoretical	AHP: Solution phases of the analytical hierarchy process					
9	Intermediate Exam	Midterms					
10	Intermediate Exam	Midterms					
11	Theoretical	ANP: Solution phases of the analytical network process					
12	Theoretical	TOPSIS: Solution stages of TOPSIS method					
13	Theoretical	ELECTRE: Solution stages of ELECTRE method					
14	Theoretical	VIKOR: Solution steps of VIKOR technique					
15	Theoretical	Applications					
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
	127			
		[Total Workload (Hours) / 25*] = ECTS	5
*25 hour workload is accepted as 1 ECTS				

Learn	arning Outcomes							
1	Will be able to explain decision making environments and decision process							
2	Explain the decision tree and BAYES theorem							

- Explain the decident feet and Bittle theorem
- 3 Explain AHP and ANP decision theories
- 4 Explain TOPSIS decision theory
- 5 Explain ELECTRE decision theory and VIKOR decision model

Programme Outcomes (Logistics Management Interdisciplinary Master)

- 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;
- Reaching a competency about contemporary business and technology applications in the area of logistics and supply chain management and analysis and strategy development methods;
- 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;
- 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;
- 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;
- 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;
- 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;
- 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	4	4	4	5	4
P2	3	2	5	5	5
P3	1	3	4	1	4
P4	3	4	4	3	
P5	4	3	3	3	5
P6	4	4	4	4	4
P7	1	3	5	5	3
P8	3	4	4	4	5
P9	2	5	3	5	4
P10	5	5	3	1	3

