



YAŞAR UNIVERSITY
FACULTY OF ECONOMICS AND ADMINISTRATIVE SCIENCES
INTERNATIONAL LOGISTIC MANAGEMENT DEPARTMENT
COURSE SYLLABUS

Course Title	Course Code	Semester	Course Hour/Week		Yaşar Credit	ECTS	
Decision Making Models in Logistics	LOGI 312	Spring	Theory 3	Practice 0		5	
Course Type							
1. Compulsory Courses							
1.1. Programme Compulsory Courses							
							X
1.2. University Compulsory Courses (UFND)							
1.3. YÖK (Higher Education Council) Compulsory Courses							
2. Elective Courses							
2.1. Program Elective Courses							
2.2. University Elective Courses							
3. Prerequisites Courses							
3.1. Compulsory Prerequisites Courses							
3.2. Elective Prerequisites Courses							

Language of Instruction	English	
Level of Course	Associate Degree (Short Cycle)	
	Undergraduate (First Cycle)	X
	Graduate (Second Cycle)	
	Doctoral Course (Third Cycle)	
Prerequisites of the Course (compulsory)		
Special Pre-Conditions of the Course (recommended)	Basic knowledge on modelling (LOGI 312) is recommended	

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Course Instructor(s)	Dr. Deniz Ozdemir	Mail: deniz.ozdemir@yasar.edu.tr Web: dozdemir.yasar.edu.tr
Course Assistant(s)/Tutor (s)		Mail: Web:
Aim(s) of the Course	The aim of this course is to give students basic theoretical and practical knowledge to develop computer-aided decision making models and apply these models to the main areas of logistics ht.	
Learning Outcomes of the Course	By the end of the course , the students should be able to: 1. Obtain the competency to develop decision making models and to apply them to the business environment using computer-aided tools. 2. Develop an understanding of how quantitative tools and analysis may lead to improved decision-making	

	<p>3. Improve your quantitative reasoning ability.</p> <p>4. Improve your understanding of quantitative decision-making for management.</p>
Course Content	<p>Course is designed as a survey of analytic tools, approaches, and techniques which are useful in the design and operation of diverse functional areas in logistics. The topics which will be covered during the course include decision analysis, decision criteria, decision trees, Bayes's rule, analytical hierarchy process and value of information.</p>

COURSE OUTLINE/SCHEDULE (Weekly)			
Week	Topics	Preliminary Preparation	Methodology and Implementation (theory, practice, assignment etc)
1	Introduction to Decision Analysis	Ch1	Theory and real-life business cases
2	Elements of Decision Problems	Ch2	Theory and real-life business cases
3	Structuring Decisions	Ch3	Theory and real-life business cases
4	Strategic Decisions: Facility Location & layout	Lecture Notes	Theory and real-life business cases
5	Tactical Decisions: Material Handling, Distribution and Routing	Lecture Notes	Theory and real-life business cases
6	Tactical Decisions: Material Handling, Distribution and Routing	Lecture Notes	Theory and real-life business cases
7	Midterm Exam		
8	Probability Basics	Ch7	
9	Making Choices	Ch4	Theory and real-life business cases
10	Making Choices (Cont'd)	Ch4	Theory and real-life business cases
11	Sensitivity Analysis	Ch5	Theory and real-life business cases
12	Operational Decisions: Inventory Management	Lecture Notes	Theory and real-life business cases
13	Value of Information	Ch12	Theory and real-life business cases
14	Risk Attitudes	Ch13	Theory and real-life business cases
15	Decision Making with Multiple Objectives	Lecture Notes	Theory and real-life business cases
Required Course Material (s) /Reading(s)/Text Book (s)		<ul style="list-style-type: none"> • Making Hard Decisions with Decision Tools by Robert T. Clemen and Terence Reilly, Duxbury Press, CA, 2001 	
Recommended Course Material (s)/Reading(s)/Other		Lecture Notes	

ASSESSMENT		
Semester Activities/ Studies	NUMBER	WEIGHT in %
Mid-Term	1	25
Attendance		

Quiz	4	20
Assignment (s)	4	20
Project		
Laboratory		
Field Studies (Technical Visits)		
Presentation/ Seminar		
Practice (Laboratory, Virtual Court, Studio Studies etc.)		
Other (Placement/Internship etc.)		
TOTAL		65
Contribution of Semester Activities/Studies to the Final Grade		
Contribution of Final Examination/Final Project/ Dissertation to the Final Grade		35
TOTAL		100

CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME OUTCOMES						
No	Programme Outcomes	Level of Contribution (1- lowest/ 5- highest)				
		1	2	3	4	5
1	To ascertain how to become a manager in national and international logistics companies.			3		
2	To identify various activities of logistics: purchasing, stock management, warehouse and transportation management, sale and distribution, transporting, handling, traffic management, packaging, customer relationship management and reverse flow in supply chain management	1				
3	To explain modes of international transportation including road, sea, air, pipeline and multi-modal transportation systems	1				
4	To distinguish and explain the concepts in supply chain management and logistics	1				
5	To develop efficient logistics and supply chain strategies by using appropriate theory, tools and methods, to design logistics systems and make decisions that will support the mission and goals of business.				4	
6	To analyze companies from a managerial point of view				4	
7	To evaluate logistics and supply chain management practices critically, identify and analyze problems in logistics processes.			3		
8	To create innovative solutions for logistics problems to achieve a higher performance in logistics activities and developing recommendations for performance improvements			3		
9	To recognize the main actors, challenges and dynamics of the international logistics	1				
10	To identify and distinguish the legal framework of international logistics operations, and assess conformity of logistics operations to the national and international rules and regulations	1				
11	To recognize the importance and the need of adaptation to the rapidly evolving global business environment.		2			
12	To demonstrate effective written and verbal communication skills with people having different organizational cultures and from inside or outside of the organization		2			
13	To illustrate leadership skills in teamwork and contributing to the team while recognizing the contribution of teamwork to success	1				
14	To examine and adopt to the sophisticated and rapidly changing IT and computer technologies				4	
15	To appraise the appropriateness of data collection, interpretation, application, and announcement of the results with the social, scientific, cultural and ethical values.				4	
16	To appraise the appropriateness of data collection, interpretation, application, and announcement of the results with the occupational safety rules and environmental regulations	1				

17	To recognize the significance of lifelong learning and apply the learning skills that have been developed through this program in other areas of life while attributing ethical values	1				
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ECTS /STUDENT WORKLOAD				
ACTIVITIES	NUMBER	UNIT	HOUR	TOTAL (WORKLOAD)
Course Teaching Hour (14 weeks* total course hours)	14	hrs	3	42
Preliminary Preparation and finalizing of course notes, further self- study	14	hrs	2	28
Assignment (s)	4	hrs	3	15
Presentation/ Seminars				
Quiz and Preparation for the Quiz	4	hrs	2	6
Mid- Term(s)	1	hrs	10	10
Project (s)				
Field Studies (Technical Visits, Investigate Visit etc.)				
Practice (Laboratory, Virtual Court, Studio Studies etc.)				
Final Examination/ Final Project/ Dissertation and Preparation	1		15	15
Other (Placement/Internship etc.)				
Total Workload				123
Total Workload/ 25				4.92
ECTS				5

ETHICAL RULES WITH REGARD TO THE COURSE (IF AVAILABLE)
<p>- Plagiarism is intentionally failing to give credit to sources used in writing regardless of whether they are published or unpublished. Plagiarism (which also includes any kind of cheating in exams) is a disciplinary offence and will be dealt with accordingly.</p> <p>- Make-up exams for Mid-term and Final Exams will be given only if the student provides a medical report from a government doctor or university health centre and by the approval of the lecturer.</p> <p>- Regarding the format of the course as a courtesy to your fellow classmates, please switch your mobile phones to silence mode during class and turn off cell phones during exams. Students must abide general ethic rules, including “do no harm” principle .</p>

ASSESSMENT and EVALUATION METHODS:	
Final Grades will be determined according to the Yaşar University Associate Degree, Bachelor Degree and Graduate Degree Education and Examination Regulation	
Prepared by	Dr. Deniz Ozdemir
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APPROVAL PROCESS:	
Departmental Board Decision Date& Number	
Faculty Board Decision Date& Number	
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