

F. Course Description					
Course Name		Mathematics for Economist 1			
Course Language		Turkish			
Course Level		Associate Degree ()	First Cycle (x)	Second Cycle (X)	Third Cycle ()
Mode of Delivery					
Formal (x)		Distance Learning ()		Others ()	
Course Type		Course Unit Code		Course Code	
Required (x)	Elective ()			0401229	
Theory (Hours)	Application (Hours)	Total	Semester	National Credits	ECTS
3	-	3	fall	3	
Course Objectives		To acquaint the students with the central mathematical methods utilized in the mathematical approach to economic analysis, and show how these methods are applied in the central theories of economics.			
Course Content		Comparative Static Analysis, linear models, matrices, optimization, and economic applications of these techniques			
Pre-requisites		Mathematics 1, 2 and Introduction to Economics 1,2			
Recommended Elective Courses					
Course Learning Outcomes		<ol style="list-style-type: none"> 1. Could utilize mathematical tools in Economics 2. Could explain economic models by employing mathematics. 3. Could apply optimization and ve constrained optimization techniques to economic problems 4. Could perform comparative static analysis 5. Could utilize matrice algebra and take derivatives 			
Course Coordinator					
Course Lecturer(s)		Doç. Dr. Y. Koray DUMAN			
Course Assistants					
Teaching Methods					
(x) Oral Presentation	() Case Study	() Computer assisted			
(x) Discussion	() Drama	() Laboratory			
(x) Problem Solving	() Invention	()			
() Experiment	() Project	()			
Course Notes / Textbooks		<ol style="list-style-type: none"> 1. Chiang A. Matematiksel İktisadın Temelleri. 1. Michael Hoy et al. (1996) Mathematics for Economics 			
Evaluation System					
() Direct Conversion System				X Relative Assessment	
Mesarument and Evaluation System		Requirements		Number	Percentage of Grade
		Attendance		15	
		Quizzes			
		Midterm Exam(s)		1	%30
		Homework(s) / Seminar(s)		10	
		Term Assignment(s) / Project Application			



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	(Laboratory, Atelier , Field Work, Problem Based Learning- PBL Reports)		
	Others (.....)		
	Final Exam	1	70%
	Total		% 100

Distribution of Topics By Weeks		
Weeks	Topics	Preparatory Work
1	Nature of Mathematical Economics, Economic Models	Chiang Ch. 1
2	Equilibrium analysis	Chiang Ch. 2&3
3	Linear models and Matrix Algebra	Chiang Ch. 4
4	Linear models and Matrix Algebra	Chiang Ch. 5
5	Linear models and Matrix Algebra - Economic Applications	Chiang Ch.5
6	Comparative Static Analysis	Chiang Ch.6
7	Comparative Statics and Concept of Derivative	Chiang Ch. 7
8	Rules of Differentiation and Their Use in Comparative Statics	Chiang Ch.7
9	Comparative Analysis of General-Function Models- Economic Applications	Chiang Ch.8
10	Optimization Problems	Chiang Ch.9
11	Exponential and Logarithmic Functions	Chiang Ch.10
12	Optimization: The case of more than one choice variable	Chiang Ch. 11
13	Economic Applications	Chiang B. 11
14	Constrained Optimization	Chiang Ch.12
15	Economic Applications	Chiang Ch.12

Program Outcomes	Course Learning Outcomes*									
	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10
PO 01	3	3	3	1	1					
PO 02	1	1	1							
PO 03	3	3								
PO 04										
PO 05										
PO 06	5	5	5	5	5					
PO 07		2								
PO 08										
PO 09	1	1								
PO 10										
PO 11										
PO 12										
PO 13	2	2								
PO 14										
PO 15										
PO 16										
PO 17										
PO 18										

* 1: Low

2: Lowest

3: Average

4: High

5: Highest



ECTS of the Course Based on Learning, Teaching and Evaluation Activities (Average Hours)

Activities	Number	Preparatory Work	Duration	Total Workload
Theory	14	1	3	56
Applied Course				
Homework(s) / Seminar(s)	10	1		10
Term Assignment / Project				
Application (Laboratory, Atelier, Field, Problem Based Learning - PBL)				
Other Learning Activities	1	20	-	20
Quizzes				
Midterm Exam(s)	1	20	1	21
Final Exam	1	30	1	31
Total Workload (Hours)				148
Rounding [Total Workload (hours) / Weekly Workload (30)] = ECTS				5