



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Finance Mathematics							
Course Code		FEK515		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	5	Workload	125 (<i>Hours</i>)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		To teach mathematical analysis and its uses in the field of economics.							
Course Content		Derivatives, definite and indefinite integral and mathematical analysis.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Individual Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	CHİANG, A., C., (2010). Matematiksel İktisadın Temel Yöntemleri, Çeviren: Muzaffer Sarımeşeli, Osman Aydoğuş, Gazi Büro Kitabevi
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Week	Weekly Detailed Course Contents	
1	Theoretical	Economical, linear and quadratic relations
2	Theoretical	Equilibrium analysis and partial equilibrium analysis I
3	Theoretical	Equilibrium analysis and partial equilibrium analysis II
4	Theoretical	General equilibrium matrix algebra
5	Theoretical	Change ratio, differentiation, methods of differentiating I
6	Theoretical	Change ratio, differentiation, methods of differentiating II
7	Theoretical	Partial derivative
8	Intermediate Exam	Midterm Exam
9	Theoretical	Derivative and elasticity
10	Theoretical	Limit, uncertainty in limit
11	Theoretical	Volume, definite integral and its properties
12	Theoretical	Calculation of indefinite integral, properties and methods to integrate
13	Theoretical	Area and arc calculations through definite integral
14	Theoretical	Volume calculation through definite integral
15	Theoretical	Partial derivation and method of varying variable
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	4	3	98
Midterm Examination	1	10	1	11
Final Examination	1	14	2	16
Total Workload (Hours)				125
[Total Workload (Hours) / 25*] = ECTS				5

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to use mathematical techniques in economics
2	To be able to assess economical relations
3	To be able to analyze economical events
4	To be able to explain the concepts of time value of money



5	To be able to make profit accounts
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Programme Outcomes (Econometrics Master)

1	Understanding the concept of econometric
2	Ability to estimate econometric models
3	Test to the estimated reliability of the econometric model
4	Learning time series analysis
5	Recognition of financial assets and analysis that estimates the decisions of economic units
6	Be able to use econometric methods developed specifically for analysis of financial data
7	To be able to use computer programs needed in the field financial economics as well as information and communication technologies in advanced levels
8	Provision of the information that will be base for the econometric applications on money theories, theories of international trade and finance
9	Considering a scientific research, to be able to make a profound literature research, analysis, estimations and reporting findings in a scientific work

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

