



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Economics and Financial Mathematics I							
Course Code		EFN517		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		In this course students will learn how to make calculations related to finance. At the end of the course, students will have knowledge about the calculation of interest, annuities, debt repayment, internal and external discount, bond valuation, stock valuation and project evaluation.							
Course Content		Calculations on percentage, calculations related to cost, profit and sales, calculation of interest, annuities, debt repayment, internal and external discount, bond valuation, stock valuation, project evaluation.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)		Lec. Yılmaz ERDEM							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Stephen A. Ross, Randolph W. Westerfield, Bradford D. Jordan (2008). Corporate Finance Fundamentals 8th ed. McGraw-Hill.
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Week	Weekly Detailed Course Contents	
1	Theoretical	Calculations on percentage
2	Theoretical	Calculations related to cost, profit and sales
3	Theoretical	Calculation of interest
4	Theoretical	Calculation of interest
5	Theoretical	Annuities and Applications
6	Theoretical	Annuities and Applications
7	Theoretical	Annuities and Applications
8	Intermediate Exam	Mid-term
9	Theoretical	Debt Repayment and Applications
10	Theoretical	Debt Repayment and Applications
11	Theoretical	Internal and External Discount
12	Theoretical	Bond Valuation Applications
13	Theoretical	Bond Valuation Applications
14	Theoretical	Stock Valuation Applications
15	Theoretical	Project Evaluation
16	Final Exam	Final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	3	70
Individual Work	7	2	2	28
Midterm Examination	1	10	1	11
Final Examination	1	15	1	16
Total Workload (Hours)				125
[Total Workload (Hours) / 25*] = ECTS				5
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To compute market prices of bonds and stock prices.
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2	To calculate derivative prices.
3	To compute present value and internal rate of return.
4	To evaluate future returns of different financial instruments.
5	Having knowledge about law required by management.

Programme Outcomes (Economics and Finance Interdisciplinary Master)

1	To be able to use the basic concepts in the field of economics and finance correctly
2	To be able to comprehend philosophical, social, historical and psychological principles influencing economics and finance
3	To be able to analyze economical and financial events theoretically and empirically
4	To be able to evaluate any economical and financial problem in accordance with scientific principles
5	To be able to prepare solutions for an economical or financial problem cooperatively in accordance with principles and criteria
6	To be able to follow contemporary implementations, and national and international academic publications
7	To be able to prioritize scientific methods and ethical principles in economics and finance while considering and implementing field specific professional issues
8	To be willing to do scientific research in the field of economics and finance
9	To be able to create value for economics and finance profession as a professional identity

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

