AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Panel Data Analysis								
Course Code	EFN572		Couse Level	Second Cycle (Master's Degree)					
ECTS Credit	5	Workload	125 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	In this course, it is aimed to examine the panel data analysis methods used in economics and finance both theoretically and practically.								
Course Content	Aggregated Models, Panel Data Models, Variance and Autocorrelation Tests in Panel Data Models, Apparently Unrelated Regression, Unit Root Tests in Panel Data, Horizontal Section Dependency, Panel Peer Integration								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion								
Name of Lecturer(s)									

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

Recommended or Required Reading	
1	Ekonometriye Giriş, Modern Bir Yaklaşım, 50. Baskı, J.M. Wooldridge, 2012

Week	Weekly Detailed Course Contents	
1	Theoretical	Basic Concepts, Introduction
2	Theoretical	Review of estimation methods (Linear Models and OLS, GLS, MLE, IV, GMM)
3	Theoretical	Review of estimation methods (Linear Models and OLS, GLS, MLE, IV, GMM)
4	Theoretical	Econometric analysis and simulation with STATA
5	Theoretical	Linear Panel Data Models: Fixed effects model, single and double direction error components models
6	Theoretical	Linear Panel Data Models: Random effects
7	Theoretical	Comparison of tests and estimation methods and hypothesis testing
8	Intermediate Exam	Midterm
9	Theoretical	Equation systems, GMM, SURE (Seemingly Unrelated REgressions) and Error Components Models
10	Theoretical	Simultaneous Equations and Error Components Models
11	Theoretical	Dynamic panel data models, Arellano-Bond, Arellano-Bover and Blundell and Bover Estimators
12	Theoretical	Dynamic panel data models, Arellano-Bond, Arellano-Bover and Blundell and Bover Estimators
13	Theoretical	Unbalanced panel data models
14	Theoretical	Non-stationary panel ver models, panel unit root tests, panel cointegration tests
15	Theoretical	Non-stationary panel ver models, panel unit root tests, panel cointegration tests
16	Final Exam	Final Exam

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 be able to define the basic concepts of panel data analysis
2	Obtaining the appropriate dataset for panel data analysis
3	Determining the appropriate analysis method for the panel dataset
4	To be able to establish a model
5	To reveal and interpret relationships

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