Faculty of Economics and Business Administration

COURSE (MODULE) DESCRIPTION

Course title	Course code
Panel Data Econometrics	

Lecturer(s)	Department where the course is delivered
Coordinator: Vaidotas Zemlys-Balevičius **Other lecturers: none**	Faculty of Economics and Business administration

Cycle		Type of course
First (Bachelor's)		Selective

Mode of delivery	Semester or period when the course is delivered	Language of instruction
Face-to-face	Sixth (spring) semester	English

Prerequisites and corequisites	
Prerequisites: Statistical Theory, Econometric Theory and Practice	**Corequisites (if any):** basic skills in statistical computing is required

Number of ECTS credits	Student's workload	Contact hours	Individual work hours
5	130	36	94

Purpose of the course and competences developed		
The course presents an overview of econometric methods used in panel data analysis and develops the students' skills necessary for applied analysis of panel data.		
Learning outcomes	**Learning methods**	**Assesment methods**
Knowledge and understanding of panel data regression and its applications. (1.2)	Traditional *lectures* to explain the models of panel data regressions *Tutorial classes* to solve problems that help understand the concepts and methods presented. *Individual and group work*: Solving complementary problems and studying the literature.	Homework, midterm exam, written exam.
Knowledge and understanding of estimation methods of panel data regression models. (3.2)		
Have acquired knowledge how to specify, estimate and interpret results of the apropriate panel data regression model for a given econometric problem. (3.4)		

Course content: breakdown of	Contact / Individual work: time and assignments

the course	Lectures	Tutorials	Seminars	Practical classes	Laboraory work	Practie	Contact hours	Individual work	Assignments
Panel data, the definition, advantages and disadvantages of using panel data.	2	2					4	9	Wooldridge Ch 1
The estimation of systems of equations.	6						6	20	Wooldridge Ch 7-8
Random and fixed effects panel data regressions.	6	5					11	25	Wooldridge Ch 10 Midterm exam
Application of General method of moments to panel data regression estimation	6						6	20	Wooldridge Ch 14
Dynamic panel data regression	4	5					9	20	*Lecture notes*
Total	**24**	**12**					**36**	**94**	

Assesment strategy	Weight	Time of assesment	Criteria
Common evaluation scheme. 10-point scale is used for grading. The final grade is equal to the rounded sum of all collected grades multiplied by the corresponding weights. To get the positive final grade 5 is necessary to pass the written exam.			
Midterm exam	50%	During recita-tion classes	The midterm exam tests the knowledge of students from first 3 themes. Exam includes 4-6 problems of different complexity. The maximum sum of points from the exam is 30. The passing grade is 10 points. The points are scaled to the 10 point scale for final grade, where 20 midterm exam points = 10 midterm exam grade points. The final grade is rounded.
Written exam	50%	1.5 h	The exam tests the knowledge of students from themes 4-6. Exam includes 4-6 problems of different complexity. The maximum sum of points from the exam is 30. The passing grade is 10 points. The points are scaled to the 10 point scale for final grade, where 20 exam points = 10 exam grade points. The final grade is rounded.

Author	Publication year	Title	Volume and/or publication number	Publication place and publisher
Required reading				
[1] Wooldridge, J.M	2001	Econometric Analysis of Cross Section and Panel data		The MIT Press, Cambridge, Massachusetts
Additional reading				
[1] Baltagi B. H.	2005	Econometric Analysis of Panel Data		John Wiley & Sons, Ltd, Chichester