

SYLLABUS academic year 2017/18 Faculty of Economics University of Gdansk

Course title Ap		plied Econometrics									ECTS code 14.3.EE.PZ.879			E.PZ.879
									ECT	ECTS credits 4				
Name of unit adm	inistra	ating stud	y OTH	OTHER Field of study Economics						Field of s	eld of specialisation NONE;			
I eaching staff Paweł Miłobędzki, Associate Professor ; Dorota Ciołek, Associate Professor														
Number of hours														
Lectures 12	Class	es 0	es 0 Tutorials 0 Labo					0	ninars	0	Language classes 0			
Forma aktywności							Year&Type of studies*				2 SDang,			
Hours with the participation of the ac office hours, exams, others):				ic teache	g			Semester:			3			
Hours without the participation of the academic teacher (student's self-study, homeworks):							Type of course: obligatory				tory			
Total number of h				0		Language of English instruction:			ish					
Teaching form	n	in-class l	in-class learning											
Teaching metho	ods	Lectures including multimodal presentations, Case studies, Work in computer laboratories,												
Prerequisites (required courses and introductory requirements)														
Required courses Basics of micro- and macroeconomics, international economics, finance, mathematics, descriptive and mathematical statistics as well as econometrics taught at the BA and MA levels.										iptive				
Introductory requirements Students should be familiar with the principles of consumer and producer behaviour, basic models market competition, general equilibrium and growth, international trade, capital and money mark The knowledge of elementary linear algebra, differential and integral calculus, statistical theory a some skills in the exploratory data analysis are essential.									nodels of markets. ory and					
Assessment method, forms and criteria														
Assessment met	hod	Exam												
Assessment crit	eria	Students are expected to write an essay of approximately 1500 words (excl. an appendix containing the statistical stuff, tables, references and other forms of documentation) dedicated to the verification of a well established hypothesis learned while attending the core courses in economics. The deadline for its delivery is 2 weeks prior the beginning of examination session. In doing so they are advised to use any data set from those accompanying Gretl. The writing instructions are to be found in Ramanathan (see the recommended reading list below). The essay is to be later discussed with the lecturer. The final assessment will be made upon the essay (60%) and the discussion (40%).												
Course objectives														
Provide students with the advanced tools of quantitative analysis in economics to help them conduct their own empirical research.														
Learning outcomes														
Knowledge	Knowledge E3_W03 Elementary knowledge of the estimation frameworks in econometr maximum likelihood, GMM), cross section and univariate time serie diagnostic checking, model selection and specification testing gains the econometrics itself as well as its applications in economics/fina							trics (least squares, 'ies regressions, ned while studying both nance.						
		E3_W04 Elementary knowledge of the estimation frameworks in econometer maximum likelihood, GMM), cross section and univariate time seri diagnostic checking, model selection and specification testing gain the econometrics itself as well as its applications in economics/final						trics (least squares, ries regressions, ned while studying both nance.						
Verification of learning outcomes - Knowledge														
Outcomes		written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	qroup	presentation	classroom activities	classroom	discussion	individual project	group project



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E3_W03				X				X	X			
E3_W04				X				X	X			
Skills	E3_U03 Specification, estimation and verification of simple but well established models in economics and/or finance, use these models for prediction and economic policy evaluation purposes.									1		
	E3_U04	Spec econ evalu	Specification, estimation and verification of simple but well established models in economics and/or finance, use these models for prediction and economic policy evaluation purposes.									
Verification of learning outcomes - Skills												
Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project	
E3_U03				X				X	X			
E3_U06								X	Х			
Attitudes	E3_K03 Students strenghten their ability to communicate with the public during classroom activities and discussion											
	E3_K06 Students know the limitations of simple and multiple regression models and the consequences of violation of the underlying them assumptions and do not go beyond these bounds in the applied research.											
Verification of learning outcomes - Attitudes												
Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project	
E3_K02				X				X	X			
E3_K04								Х	X			
				Cours	e content	5						
Regression model evalu regression diagnostics,	ation: dat heterosce	a problen dastic and	ns (proxy d autocori	variables related dis	, measure sturbance	ement err terms, st	ors), estii cochastic	mation me explanato	ethods (Ol ry variable	LS, ML, GI es.	ЧМ),	
Time series econometric trends), detrending, uni	cs: station t root test	ary and r s, cointe	nonstatior gration, fi	nary time tting mod	series, sp els with n	ecific univ onstation	/ariate se ary time	ries (rand series.	lom walks	, drifts and	d	
Panel data methods: pooled cross-sections, fixed and random effects, one-way and two-way models, estimation with first differences, instrumental variables.												
Recommended reading lists												
B.H.Baltagi, Econometri	c analysis	of panel	data. Wile	ey, Chiche	ester, 200	8.						
W.H.Greene, Econometric analysis. Prentice Hall, Upper Saddle River, 2008.												
R.C.Hill, W.E.Griffiths, G.C.Lim, Principles of econometrics. Wiley, Hoboken, 2008.												
G.S.Maddala, K.Lahiri, Introduction to econometrics. Wiley, Chichester, 2009.												
R.Ramanathan, Introductory Econometrics with Applications. South-Western, Mason 2002.												
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* SS1- undergraduate studies * SS2 - graduate studies * SDang - doctoral studies												
** MSG - International Economic Relations												