Type and level of studies: PhD						
Title of the study program: (303) Statistics						
Subject title: Panel Data Econometrics						
Subject code: DEPA						
Number of ECTS: 9						
Subject status (Compulsory / Elective): Elective						
Tea	cher/s (Name, last name): Rad	mila S. Dragutinović Mitrović.	, Aleksa	undra Č. Nojković		
Number of active teaching lessons: Other lessons:						
Lec	tures: Practice classes:	Other forms of teaching:	Study	research work:	0	
3	0	0	3			
Prerequisite: None						
Subject objective: This course introduces key econometric panel data methods and models, as the basis for						
empirical analysis of economic relations based on panel data samples. Both theoretical aspects of panel data						
methodology and its application are considered, making students able to identify various segments of economic						
analysis in which panel data can be used.						
Subject outcome (gained knowledge): Students acquire theoretical knowledge on different panel data models and						
methods of estimation and testing hypotheses, as well as practical ability to apply that knowledge in quantifying						
economic relations. Using adopted knowledge, students should be able to conduct econometric panel data analyses						
in different areas of economics and to derive correct statistical and economic conclusions.						
Subject content/structure. The subject contains three parts: (1) Linear panel data models: fixed effects and radom						
effects models – assumptions and estimation methods; Violating of assumptions, hypothesis testing; singly and						
double endogenous regressors; Seemingly unrelated regression equations and simultaneous equations with error						
components; Dynamic panel data models; (2) Nonstationarity of panel data: panel unit root tests, panel contegration						
- tests and estimation methods; (3) Panel data models with discrete dependent variable: models for binary choice						
(probit and logit panel data models), estimation and hypothesis testing.						
Leasting methods: Teaching is carried out through fectures, consultations, study research work and seminars.						
analysis of ampirical avamples. Consultations involve the discussion on theoretical literature and on practical						
problems in empirical modeling by using the STATA program. The seminars consist of presentation of obtained						
results of study research work						
Grading (maximum number of points 100)						
Pre-examination obligations		Points	Final exam		Points	
Activities during lectures Yes		40	Writt	en exam		
Practice lessons			Oral	exam Yes	60	
Semester papers						
Col	loquium/a					
Literature:						
No. Author		Title		Publisher		Year
1.	Arellano M.	Panel Data Econometrics		Oxford University Press		2003.
		(Advanced Texts in Econom	etrics)			
2.	Baltagi, B.H. (ed.)	Nonstationary Panels, Panel		Elsevier Science, Amsterdam 2000.		2000.
		Cointegration and Dynamic Panels				
3	Baltagi B H	Econometric Analysis of Panel		John Wiley & Song 5rd adition		2013
5.	Daltagi, D.II.	Data		50111  whey a sous, 5 eartion		2015.
<u> </u>	Dragutinović Mitrović R	Dragutinović Mitrović R Analiza panel serija		Zadužbina Andrejević		2002
	Dragutinovic minovic K.	Filanza panel sellja		Zauuzoina Anurejevic, Beograd		2002.
1	Heigo C			Combridge Uni		
4.	Hsiao, C.	Analysis of Panel Data		Cambridge University Press, 2 <sup>nd</sup> edition		2003.
5.	Jovičić, M. and	Econometric methods and models		CID, Faculty of Economics,		2011.
	Dragutinović-Mitrović, R.	(Chapters 8 and 9), in Serbian		Belgrade		
6.	Matyas, L. and Sevestre, P.	The Econometrics of Panel Data,		Springer, 3 <sup>rd</sup> edition		2008.
	(eds.)	eds.) Fundamentals and Recent				
Developments in Theory and						
1	Practice					