Type and level of studies: PhD				
Title of the study program: Economics, Business Administration, Statistics				
Subject title: Econometrics 1-D				
Subject code: DEKO				
Number of ECTS: 9				
Subject status (Compulsory / Elective): Elective				
Teacher/s (Name, last name): Radmila, Dragutinović-Mitrović; Zorica, Mladenović				
Number of active teaching lessons:				**Other lessons** 0
Lectures: 3	**Practice classes**: 0	**Other forms of teaching**: 0	**Study research work**: 3	
Prerequisite: None				
Subject objective: This course is designed to introduce key econometric methods and models that are used in the analysis of time series and panel data. Theoretical aspects of these methods are overviewed and their applications in empirical modeling are discussed.				
Subject outcome (gained knowledge): Students have adopted theoretical principles of time series and panel data modeling. Students are trained to adequately implement econometric software and correctly derive statistical and economic conclusions.				
Subject content/structure: Econometric analysis of time series: basic concepts, ordinary and partial autocorrelation funcions, linear process, stationary time series models, unit root time series models, unit root tests, cointegration, equilibrium error correction model, empirical analysis perfomed by Eviews software. Econometric analysis of panel data: fixed effects and radom effects models – specifications, assumptions and estimation methods, testing for fixed and random effects, statistical inference when assumptions of static panel data model are violated, dynamic panel data models, panel unit root and cointegration tests, empirical analysis performed by Stata software.				
Teaching methods: Key theoretical results are covered during lectures. Within study reseach work practical problems are solved and empirical modeling is performed by using statistical software Eviews and Stata.				

Grading (maximum number of points 100)

Pre-examination obligations	Points	Final exam	*Points*
Activities during lectures	20	**Written exam**	60
Practice lessons		**Oral exam**	
Colloquium/a	20	....	
Semester papers			

Literature:

No.	Author	Title	Publisher	Year
1.	Baltagi, B.H.	Econometric Analysis of Panel Data	John Wiley & Sons, 4rd ed.	2008.
2.	Heij, C., P. de Boer, P.H. Franses, T. Kloek and H.K. van Dijk	Econometric Methods with Applications in Business and Economics	Oxford University Press	2004.
3.	Jovičić, M. and Dragutinović-Mitrović, R.	Econometric methods and models, in Serbian	Ekonomski fakultet, Beograd	2011.
4.	Matyas, L. and Sevestre, P. (eds.)	The Econometrics of Panel Data, Fundamentals and Recent Developments in Theory and Practice	Springer Verlag, 3rd ed.	2008.
5.	Mladenović, Z. and Nojković, A.	Applied Time Series Analysis, in Serbian	Ekonomski fakultet, Beograd	2012.
6.	Tsay, R.S.	Analysis of Financial Time Series	Wiley, 3rd ed.	2010.