

Course name	Field of science (branch)	Faculty	Department
Macroeconomic research methods	Economics S 004	Faculty of Economics and Business Administration	Theoretical economics

Study format	ECTS Credit number	Study format	Credi number
Lectures	1	Consultations	
Individual studies	6	Seminars	

SYLLABUS OF DOCTORAL STUDIES

Subject annotation

The aim of the course is to provide knowledge and practical skills on how to use the available data to model the macroeconomic situation and the results of impact measures by combining economic theory and quantitative research methods. Particular attention is paid to the assessment of the problems of the state economic policy using econometric methods.

Tasks:

1. To improve the skills to conduct economic research independently: to select and apply quantitative methods of economic research for the analysis and critical evaluation of economic ideas, the formulation of economic arguments and assumptions, as well as the search for solutions to macroeconomic problems and forecasting trends in economic phenomena;
2. To improve the ability to select appropriate empirical data for the relationship between economic phenomena and to group, analyze and otherwise process them
3. To improve the ability to constructively assess the quality of work and provide feedback during public events and group discussions; to raise problems, critically argue them and develop ideas for the application of problem-solving alternatives; independently collect, analyze and interpret information.

Subject topics:

1. Introduction to economic research methods (theoretical foundations; financial programming methodology; basic quantitative methods of empirical research; acquaintance with Eviews environment.
2. Introduction to working with data: getting acquainted with databases; methods of data processing and transformation in them; ways to import data into Eviews. Introduction to working with panel data in an Eviews environment and panel data analysis.
3. Research methods of production and aggregate demand: economic indicators and their measurement (economic significance of transformation of variables); methods for assessing potential economic indicators and their gaps; methods for eliminating the effects of seasonality. Linear regression models: "important assumptions"; BLUE; diagnostic statistics in the Eviews environment; instrumental variables. Introduction to forecasting methods: their application in linear regression models; forecasting strategies.
4. Inflation and exchange rates; research methods of financial and foreign sectors: economic indicators and their measurement (economic significance of transformation of variables); Phillips curve estimation and exchange rate prediction, application of the Taylor rule, etc. methods. ARIMA. Stationarity of time series and its diagnostics in Eviews environment.
5. Vector autoregression models (VARs) and their application in prediction: an analysis of the examples of Sims (1992) and Blanchard & Perotti (2002). Cointegration (Johansen) and causality (Granger) tests; VECM. Introduction to general equilibrium models and their construction in Matlab environment.

Grading:

Coursework and its defense (40%)

Exam (test of open and closed theoretical questions and practical tasks) (60%)

Primary literature:

1. Birkland Thomas A. *An Introduction to the Policy Process, Theories, Concepts, and Models of Public Policy Making*, 5th ed., Routledge, 2019.

2. Wooldridge, Jeffrey M.. *Introductory Econometrics: A Modern Approach*, 6th ed., South-Western College Pub, 2016.

3. Kirchgässner, Gebhard Wolters, Jürgen Hassler, Uwe. *Introduction to Modern Time Series Analysis*, 2nd ed., Springer-Verlag, 2013.

4. Enders, Walter. *Applied Econometric Times Series*, 4th ed., John Wiley & Sons, Inc., 2014.

Name of consulting instructor	Academic degree	The most important works in the field of science (branch) have been published during the last 5 years
Vincentas Giedraitis	Dr.	<ol style="list-style-type: none"> Giedraitis, V.; Stavvytsky, A.; Kharlamova, G.; Cheberyako, O.; Nikytenko, D.; "Gender Question: Econometric Answer." <i>Economics and Sociology</i>, 2020. 13 (4). Giedraitis, Vincentas; MD. Mizanur Rahman; Md. Habibur Rahman; Syeda Sultana Parveen. "Health Seeking Behavior and Healthcare Access to Married Women in Bangladesh: Encouraging and Discouraging Factors." 2017. <i>South Asian Journal of Participative Development</i>. 16 (2). Giedraitis, Vincentas; Jorgenson, Andrew; Schor, Juliet. "Income inequality and carbon emissions in Post-Soviet nations, 1992-2009." 2017. <i>Ekonomika</i>. 96(3). Giedraitis, Vincentas; Jorgeson, Andrew; Longhofer, Wesley; Grant, Don; Sie, Amanda. "The effects of economic and political integration on power plants' carbon emissions in the post-soviet transition nations." 2017. <i>Environmental Research Letters</i>. 12 (4).

Name of consulting instructor	Academic degree	The most important works in the field of science (branch) have been published during the last 5 years
Romas Lazutka	Dr. (HP)	1. Razgūnė, A., Lazutka, R. Labour share trend analysis in the Baltic countries. // <i>Ekonomika</i>

	<p>(mokslo darbai), Vilnius: VU, 2015, N.1. 97-116 p.</p> <p>2.Lazutka, R., Poviliūnas, A. Assessment of the implementation of the European Commission Recommendation on active inclusion: A Study of National Policies : country report - Lithuania. Luxembourg: Publications Office of the European Union, 2013. 46 p.</p> <p>3.Lazutka, R. European Minimum Income Network country report Lithuania. Analysis and Road Map for Adequate and Accessible Minimum Income Schemes in EU Member States. European Commission. 2014. 37p.</p> <p>4.Lazutka, R. Socialinis draudimas Lietuvoje: kontekstas, raida, rezultatai. Vilnius. LSTC. 2013. – 520 p. (su bendraautoriais).</p> <p>5.Lazutka R., Žalimienė L., Skučienė D., Aidukaitė J., Kazakevičiūtė J., Navickė J., Tamošiūnė- Ivaškaitė V. Socialinis teisingumas švietime: teorinė samprata ir praktinis vertinimas. Mokslo studija. Švietimo aprūpinimo centras. Vilnius, 2011. 100 p.</p> <p>6.Lazutka R., Skučienė D. 2010. Genetiškai modifikuotų organizmų poveikio socialinei-ekonominei aplinkai Lietuvoje įvertinimas. Vilnius, 61 p.</p> <p>7.Lazutka, R., Ivaškaitė-Tamošiūnė, V., Salanauskaitė, L. Euromod country report: Lithuania (LT) 2009 - 2013. 2014. 86 p.</p> <p>8.Lazutka, R. Minimum Income Scheme Reform in Lithuania. // Ekonomika (mokslo darbai), Vilnius: VU, 2014, N.4. 24-40 p.</p>
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Arūnas Burinskas	Dr.	<p>1. Stanikunas R., Burinskas A. (2014). The Impact of EU Competition Rules on Lithuanian Competition Law. Yearbook of Antitrust and regulatory studies, Nr. 7(9) P. 22-41.</p> <p>2. Stanikunas, R. A. ir Burinskas, A. (2015). The Interaction of Public and Private Enforcement of Competition Law in Lithuania. Yearbook of Antitrust and Regulatory Studies, (8 (12)), 237-258.</p> <p>3. Burinskas Arūnas; Burinskienė Aurelija (2017). A model of logistics services with heterogeneous firms. ICIL 2016: working papers of 13 International Conference on Industrial Logistics.</p>

Doktorantūros komiteto teikimu patvirtinta fakulteto/instituto taryboje 2019 m. kovo mėn. 25 d. , protokolo Nr. 210000-KI-14

Tarybos pirmininkas

Pastaba: jei doktorantūros teisė bus suteikta kartu su kita institucija, tvirtinama ne fakulteto taryboje, o jungtinėje komisijoje.