Faculty of Economics and Management, University of Bialystok

Stationary Economic Studies

Academic Year 2019/2020

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| Course: Econometrics II | ECTS Points: 6 | |
| Course Code: 0300-ES2-1EC2 | | |
| Language: English | | |
| Course description: educational content – elective, optional course | | |
| Lecturer: Dr Elzbieta Izabela Misiewicz | | |
| Semester: winter/summer | Number of hours: 30  Lecture: 15  Classes: 30 | |
| Courses to be completed before enrollment to the course:  Statistics, Econometrics I | | |
| Substantive content | | |
| **Lectures** | | Number of Hours |
| Models and variables. | | 2 |
| Introduction to linear model with one variable. | | 2 |
| Estimating the parameters of the model with two explanatory variables. | | 4 |
| Statistical verification. | | 5 |
| Prediction. | | 2 |
| **Classes** | | Number of Hours |
| Models and variables. | | 2 |
| Data for econometric analysis | | 2 |
| Methods of selection of variables in linear model. | | 2 |
| Linear Model with one variable. Estimating the parameters of the model with one explanatory variable. | | 4 |
| Introduction Linear Model with two variables. OLS estimation. Measuring goodness of fit. | | 8 |
| The content and statistical verification. Multicollinearity between variables. Heteroscedasticity between Random Errors. Autocorrelation between Random Errors. | | 6 |
| Prediction. | | 4 |
| Dummy veriables. | | 2 |
| Aim of the course:  The main objectives of the course are to introduce students to basic econometrics techniques and to prepare them to do their own applied work. Students are encouraged to think of the course as a preparation toward their research project. | | |
| Teaching methods:  Lecture with class discussion and the student's own work. Practice in computer lab. | | |
| Literature:   1. Briand, Genevieve.:  Using Excel for Principles of econometrics / Genevieve Briand, R. Carter Hill.  New York [etc.] : John Wiley & Sons, cop. 2011 2. Dougherty, Christopher.:  Introduction to econometrics / Christopher Dougherty.  Oxford ; New York : Oxford University Press, cop. 2011 3. Wooldridge, Jeffrey M. (1960- ).:  Introductory econometrics : a modern approach, Jeffrey M. Wooldridge.  Australia [etc.]: South-Wester Cengage Learning, cop. 2013 | | |
| Forms and conditions of credit:  Lectures: Test  Classes: Activity in the class.Build an econometric model based on data from official statistics. | | |