

Subject card

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|--|---|--|--------------------|-------------------------------------|--|------------|-----|
| Subject name and code | Applications of Econometrics, PG_00042893 | | | | | | |
| Field of study | International Economic Relations | | | | | | |
| Date of commencement of studies | October 2024 | Academic year of realisation of subject | | | 2024/2025 | | |
| Education level | postgraduate studies | Subject group | | | Obligatory subject group in the field of study | | |
| Mode of study | part-time studies | Mode of delivery | | | at the university | | |
| Year of study | 1 | Language of instruction | | | Polish | | |
| Semester of study | 2 | ECTS credits | | | 1.0 | | |
| Learning profile | academic | Assessment form | | | | | |
| Conducting unit | Katedra Ekonometrii -> Faculty of Management | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr Marta Chylińska | | | | |
| | Teachers | | dr Marta Chylińska | | | | |
| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10 |
| | E-learning hours included: 0.0 | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in didactic classes included in study plan | | Participation in consultation hours | | Self-study | SUM |
| | Number of study hours | 10 | | 0.0 | | 0.0 | 10 |
| Subject objectives | Learning about the relationship between the mapped economic system and its model, as well as simple tools for measuring the relationship between the economic variables present in the model. | | | | | | |

| Learning outcomes | Course outcome | Subject outcome | Method of verification |
|-------------------|--|---|--|
| | [MSGMU2_U01] can creatively interpret and explain complex and atypical economic phenomena and the relations occurring between them, using the acquired knowledge in economics, finance and international economic relations | is able to interpret the results of estimating an econometric model | [SU1] oral statement/conversation/discussion [SU6] demonstration of practical skills |
| | [MSGMU2_K01] is ready to recognise the importance of knowledge of economics in the process of identifying and solving problems in the area of international economic relations and to consult experts in case of difficulties in solving them independently | is able to propose an econometric model suitable for verifying specific hypotheses and research goals | [SK1] oral statement/conversation/discussion [SK8] observation of student's independent or team work |
| | [MSGMU2_U02] can observe, evaluate and critically analyse the causes and course of processes and phenomena taking place in the open economy; can formulate his/her own opinions on the subject, interpret statistical data and economic indicators necessary in this respect, and also forecast economic processes and phenomena using advanced methods and tools applied in economic sciences | is able to propose an econometric model suitable for verifying specific hypotheses and research goals | [SU1] oral statement/conversation/discussion [SU6] demonstration of practical skills [SU8] observation of student's independent or team work |
| | [MSGMU2_U16] independently plans and implements lifelong learning; complements and improves the acquired knowledge and skills; is open to new ideas and techniques; can inspire and organise the learning process for others | is able to obtain appropriate statistical data and use them to estimate an econometric model | [SU1] oral statement/conversation/discussion [SU6] demonstration of practical skills |
| | [MSGMU2_K02] is ready to critically assess the level of acquired knowledge, skills and professional competence in the area of international economic relations | can independently propose an econometric model suitable for verifying problem | [SK1] oral statement/conversation/discussion [SK6] demonstration of practical skills [SK8] observation of student's independent or team work |
| | [MSGMU2_W13] knows and understands methods and tools for describing economic phenomena, including data acquisition techniques, which make it possible to describe and analyse economic entities functioning on the international market as well as processes and phenomena occurring in them and between them, and also those supporting decision-making processes | is able to build and estimate a single-equation econometric model and verify and interpret it | [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report |
| | [MSGMU2_W04] has an in-depth knowledge of different types and elements of economic structures and institutions, including institutions, organisations and economic entities; understands the causes, course, scale and consequences of changes occurring in them, as well as relations between them on a national, international and intercultural scale; knows the theories explaining relations among them | is able to identify applications of econometrics in solving complex economic problems | [SW1] oral statement/conversation/discussion |

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| Subject contents | <p>1) Introduction - a reminder of the most important concepts and principles from the basics of econometrics.2) Macroeconomic function of consumption (in cross-sectional and time-series terms) on the example of the Polish economy and all European Union countries . Elements of the theory of dynamic econometric models. 3) Hedonic price model on the example of the Tricity real estate market.4) Convergence hypothesis in the neoclassical growth model - in cross-sectional and panel terms. Models of absolute and conditional convergence for the European Union countries and for the global economy Elements of panel modeling theory.5) Modeling of corporate bankruptcy and scoring models - examples of logit and probit modeling.6) Time series forecasting for annual and seasonal data using zero-one variables</p> | | |
| Prerequisites and co-requisites | The student should previously acquire knowledge of: basics of econometrics, basics of statistics, basics of macroeconomics, and microeconomics. | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | written exam with open questions | 51.0% | 100.0% |
| Recommended reading | Basic literature | <p>M. Gruszczyński, M. Podgórska (red.), (2004), Ekonometria, Szkoła Główna Handlowa w Warszawie</p> <p>M. Gruszczyński (red.), (2012), Mikroekonometria. Modele i metody analizy danych indywidualnych, Wydawnictwo: Wolters Kluwer SA</p> <p>K.Jajuga (red.) (1998) Ekonometria, Metody i analiza problemów ekonomicznych, Wydawnictwo Akademii Ekonomicznej im. Oskara Langego we Wrocławiu, Wrocław</p> <p>K.Strzała, T.Przechlewski (2002) Ekonometria inaczej, wyd. III, Wydawnictwo Uniwersytetu Gdańskiego, Sopot</p> <p>A.Zeliaś, B.Pawełek, S.Wanat (2003) Prognozowanie ekonomiczne Teoria, Przykłady, Zadania, PWN, Warszawa</p> | |
| | Supplementary literature | <p>Wooldridge J. M. (2013), Introductory Econometrics: A Modern Approach, South-Western Cengage Learning</p> <p>Greene W.H. (2002), Econometric Analysis, New York University. Upper Saddle.</p> | |
| | eResources addresses | Adresy na platformie eNauczanie: | |
| Example issues/ example questions/ tasks being completed | | | |
| Work placement | Not applicable | | |

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