University of Gdańsk

Subject card

Subject name and code	Diploma Seminar 2, PG_00178518		
Field of study	Informatics and Econometrics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2028/2029
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study
Mode of study	part-time studies	Mode of delivery	at the university
Year of study	3	Language of instruction	Polish
Semester of study	6	ECTS credits	5.0
Learning profile	academic	Assessment form	credit
Conducting unit	Department of Econometrics -> Faculty of Management -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Marta Chylińska	
	Teachers		

Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	16.0	16
	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	16	3.0	106.0	125

Subject objectives	Completion of Chapters II and III, introduction and summary as well as preparation for the defense of the diploma thesis in accordance with ethical requirements and the principles of writing papers according to the standard specified by the Dean of the Faculty

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[IiEL3_K01] The student is prepared to acquire the knowledge necessary to tackle cognitive and practical problems, particularly in econometrics, informatics and statistics. Additionally, the students are ready to assess their current knowledge and the information they receive critically and consult with experts if they have difficulties solving the problem independently.	The student searches for, analyzes, and evaluates the information obtained. The student uses various sources necessary to prepare a scientific paper. The student verifies his/her knowledge during the seminar.	[SK3] text preparation/written work
	[IiEL3_K02] The student is ready to perform professional roles responsibly, observe professional ethics and require this of others, and care for the achievements and traditions of the professions related to econometrics, informatics or statistics.	The student identifies and applies the principles of responsible action in the context of analytical work, demonstrates awareness of the ethical aspects of data use, and respects the standards and good practices of the statistical, IT and econometric environment.	[SK3] text preparation/written work
	[IiEL3_U04] Students can build and interpret models of economic and social phenomena and processes for decision-making processes.	The student correctly interprets models of economic and social phenomena and processes.	[SU3] text preparation/written work
	[IiEL3_W05] To an advanced degree, the student knows and understands the methods, techniques and informatics or statistics tools used to acquire, collect, process and present data in decision-making processes.	The student uses the obtained data and appropriate measures and statistical or econometric methods to solve a defined research problem.	[SW3] text preparation/written work
	[IiEL3_U10] The student can convey information clearly and effectively, presenting their opinions using econometrics, informatics, and statistics terminology across various media.	The student presents the material he has developed concerning issues related to his bachelor's thesis. Student is able to formulate and publicly present and discuss theses concerning a chosen scientific topic.	[SU3] text preparation/written work
	[IiEL3_U03] Students can obtain data from appropriately selected sources, use these data to solve economic and social problems, and process and interpret them using econometrics, informatics or statistics tools.	The student obtains data relevant to the stated research goal and specific research problem. Processes them using appropriate measures and statistical methods. Interprets the obtained results.	[SU3] text preparation/written work
	[IiEL3_U02] Students can select or construct econometrics, informatics or statistics tools and apply them to describe and solve economic and social problems.	The student selects statistical or econometrics measures/methods appropriate to the research problem and the data obtained. Analyzes, describes and solves an economic or social problem resulting from the purpose of the work and the research problem.	[SU3] text preparation/written work
	[IiEL3_U07] The student can prepare written papers, presentations, and oral speeches on problems in econometrics, informatics, or statistics.	The student describes and presents the results of his/her research, interprets them. The student creates appropriate graphs and data sets in the form of tables.	[SU3] text preparation/written work

Subject contents	

Seminar Topics:

Marta Chylińska, PhD

1. Measures of uncertainty and instability in financial markets
2. Valuation of financial instruments
3. Impact of geopolitical events on market functioning
4. Commodity exchanges

Example thesis topics:

1. The impact of the war in Ukraine on agricultural commodity prices
2. Procing of metal futures contracts during periods of financial market instability
3. Relationships between futures contract prices
4. The impact of war on the world stock indices

Dr. Lech Kujawski

1. Macroeconomic forecasting
2. Modeling of economic growth
3. Verification of the convergence hypothesis
4. Modeling of exchange rates

Example thesis topics:

1. Exchange rate modeling empirical verification of the BEER model
2. Sectoral risk analysis on the Warsaw Stock Exchange (WSE)
3. Analysis of Polish exports to European countries based on Tinbergen's gravity model
4. Empirical verification of the extended Cobb-Douglas model

Anna Gierusz Matkowska , PhD
Modeling demographic phenomena, e.g. deaths, migration.
Development of various branches of the economy in Poland and/or in selected countries.
Application of econometric models to study e.g. real estate prices or the number of sold loans.
Comparison of countries or regions in terms of selected economic, social or demographic indicators.
Any topic proposal to be agreed with the supervisor.
Olga Komorowska, , PhD
Social and economic statistics (e.g. inequality, poverty, inflation, national accounts).
Statistical methods in the analysis of social and economic phenomena (e.g. unemployment, development of provinces, standard of living).
Survey research.
Any other topic after agreement.
T itles of selected bachelor's theses:
Analysis of the profitability of alternative investments Standard of living of farmers in 2006-2022 Comparative analysis of the quality of life in full- and single-parent families in 2011 and 2021

	Minimum wage and the economic situation of low-income households in 2002-2023 Statistical analysis of unemployment in the Pomeranian Voivodeship in 2010-2022 Analysis of divorces in Poland in 2005-2019 Economic development in the West Pomeranian Voivodeship compared to other voivodeships in Poland **Arkadiusz Kozłowski , PhD** Sample research methodology. Sample selection schemes for the study. Data collection techniques. Missing responses; data imputation. Questionnaire design; measurement errors. Data processing and preparation for analysis. Verification of statistical hypotheses. Variance analysis. Generalized regression models. Data classification methods. Data grouping methods. Computer simulations. Data visualization. R. programming environment. **Agnieszka Pobłocka, PhD** Study of socio-economic phenomena using statistical or econometric or actuarial methods (e.g. from the labor market, financial markets, insurance markets, or pension systems). Statistical analysis and development of a selected sector of the economic market (e.g. insurance market). Analysis of demographic phenomena (e.g. migration, mortality, ageing society, depopulation) in Poland or other selected countries of the world. Statistical comparative analysis of selected variables (e.g. enterprises or administrative units - counties, voivodeships, macroregions, countries, continents) in a given time or space. Selection of a topic in accordance with the student's interests and field of study - to be agreed with the supervisor.
Prerequisites and co-requisites	Knowledge of mathematics, statistics and econometrics
Assessment methods and criteria	

Subject passing criteria	Passing threshold	Percentage of the final grade
Bachelor's thesis accepted by the supervisor	51.0%	100.0%

Recommended reading	Basic literature	Literature used by the student for writing the thesis, verified by the seminar supervisor. W. Czakon (red), Podstawy metodologii badań w naukach o zarządzaniu. Wyd. Nieoczywiste, Warszawa, 2016
	Supplementary literature	M. Ćwiklicki, Metodyka przeglądu zakresu literatury (scoping review), MPRA, 2020; do pobrania: https://mpra.ub.uni-muenchen.de/104370/1/MPRA_paper_104370.pdf
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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