University of Gdańsk

Subject card

Subject name and code	Diploma Seminar 1, PG_00178515						
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	5		ECTS credits		2.0		
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		31.0	50
Subject objectives	Preparation of the table of contents, the first chapter and collection of data for the diploma thesis in accordance with ethical requirements and the principles of writing works according to the standard specified by the Dean of the Faculty						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[IiEL3_U01] The student can analyze and interpret social and economic processes and phenomena using knowledge and econometrics, informatics or statistics tools from management and quality sciences, economics and finance.	The student describes, analyzes, and interprets economic and financial phenomena.	[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 independently prepares their thesis.	[SU3] text preparation/written work
	[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 is able to independently propose a solution to a specific research problem related to their thesis.	[SK3] 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 proposes a solution to a specific research problem related to their thesis.	[SU3] 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 prepares a written thesis incorporating theoretical elements and presenting the results of independently conducted empirical research.	[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 selects an appropriate econometric model or statistics methods to solve selected problems in the fields of economics and finance, as well as management and quality sciences.	[SW3] 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
The first chapter of the bachelor's thesis accepted by the supervisor	51.0%	100.0%

Recommended reading	Basic literature	Literatura wykorzystana przez studenta do napisania pracy dyplomowej, zweryfikowana przez osobę prowadzącą seminarium dyplomowe 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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