

**Subject card**

<b>Subject name and code</b>	Diploma Seminar 1, PG_00178696						
<b>Field of study</b>	Informatics and Econometrics						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2028/2029		
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>			Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	3	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	5	<b>ECTS credits</b>			2.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			credit		
<b>Conducting unit</b>	Department of Econometrics -> Faculty of Management -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Marta Chylińska				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	0.0	0.0	0.0	30.0	30
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	30		4.0		16.0	50
<b>Subject objectives</b>	Preparation of the table of contents, the first chapter, and data collection for the thesis in accordance with ethical requirements and the writing standards specified by the Dean of the Faculty.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[[iEL3_U10] The student can convey information clearly and effectively, presenting their opinions using econometrics, informatics, and statistics terminology across various media.	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.	[SU3] text preparation/written work
	[[iEL3_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 proposes a solution to a specific research problem related to their thesis.	[SU3] text preparation/written work
	[[iEL3_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 describes, analyzes, and interprets economic and financial phenomena	[SK3] text preparation/written work
	[[iEL3_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
	[[iEL3_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 is able to independently propose a solution to a specific research problem related to their thesis.	[SW3] text preparation/written work
	[[iEL3_U02] Students can select or construct econometrics, informatics or statistics tools and apply them to describe and solve economic and social problems.	The student prepares a written thesis incorporating theoretical elements and presenting the results of independently conducted empirical research.	[SU3] text preparation/written work

**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. Pricing 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.

Titles 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

	<p>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</p> <p><b>Arkadiusz Kozłowski , PhD</b>  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.</p> <p><b>Agnieszka Pobłocka, PhD</b>  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.</p>		
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: <a href="https://mpra.ub.uni-muenchen.de/104370/1/MPRA_paper_104370.pdf">https://mpra.ub.uni-muenchen.de/104370/1/MPRA_paper_104370.pdf</a>	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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