



Subject card

Subject name and code	ECONOMIC FORECASTING, PG_00058464						
Field of study	Economics						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2024/2025		
Education level	first-cycle studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		exam		
Conducting unit	Department of Statistics and Econometrics -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Aneta Sobiechowska-Ziegert				
	Teachers		dr Aneta Sobiechowska-Ziegert				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	30.0	0.0	0.0	0.0	45
	E-learning hours included: 0.0						
	Additional information: academic webquest (https://asziegert1.wixsite.com/webquest-pg-2023) exercises conducted in a computer laboratory						
	 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=39620						
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	45		10.0		45.0	100
Subject objectives	Distinguishes between the quality and accuracy measures of forecasts, being aware of the usefulness of expired forecasts verification measures to formulate recommendations for the use of specific forecasting methods, also taking into account the threats arising from demographic trends, technology development and the globalization of the economy						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U07] applies information technology to improve data analysis and decision-making processes.		selects the appropriate forecasting method based on the course of the phenomenon over time, supporting analyses and inference with appropriately selected software		[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task		
	[K6_W05] integrates data from multiple sources to analyze complex economic problems.		forecasts economic phenomena at the micro and macroeconomic level, integrating data from many sources		[SW3] Assessment of knowledge contained in written work and projects		

Subject contents	Basic concepts and issues related to forecasting. Types of forecasts, methods and variables. Measurement of the quality of forecasts. Naive and adaptive methods of forecasting - introduction. Simple and weighted moving averages. Exponential smoothing - Brown, Holt and Winters model. Forecasting based on linear and nonlinear trends. Forecasting based on autoregressive models. Heuristic methods and analog forecasting. Scenarios and warning forecasts. Mega trends - forecasts for the world and Poland. Forecasting selected elements of the macro-environment of the enterprise. Forecasting selected elements of the micro-environment of the enterprise. Forecasting variables in the enterprise.		
Prerequisites and co-requisites	microeconomics basic statistics macroeconomics statistics econometrics		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	academic webquest	60.0%	50.0%
	test	60.0%	50.0%
Recommended reading	Basic literature	Cieślak, M. (2022). Prognozowanie gospodarcze metody i zastosowania. Warszawa: PWN. Dittmann, P.(2008). Prognozowanie w przedsiębiorstwie metody i ich zastosowania. Kraków: Wolters Kluwer. Dittmann, P, Szabela-Pasierbińska, E., Dittmann, I., Szpulak, A. (2017). Prognozowanie w zarządzaniu przedsiębiorstwem. Warszawa: Wydawnictwo Nieoczywiste Zeliaś, A., Pawelek, B., Wanat S. (2003). Prognozowanie ekonomiczne, teoria, przykłady, zadania. Warszawa; PWN.	
	Supplementary literature	Bukowski, M., Śniegowski, A., (2017). Megatrendy. Od akceptacji do działań. Warszawa: WiseEuropa-Fundacja Warszawski Instytut Studiów Ekonomicznych i Europejskich. Krys, Ch., Born, D.(2020). Trend Compendium 2050 Six megatrends that will shape the world. Munich: Roland Berger. Future State 2030. Światowe wyzwania dla liderów i przywódców (2014), KPMG International, MOWAT.	
	eResources addresses	Adresy na platformie eNauczanie: Prognozowanie Gospodarcze 2024 - Moodle ID: 39620 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=39620	
Example issues/ example questions/ tasks being completed	Based on data from stat.gov.pl / macroeconomic indicators for the selected economic variable. <ul style="list-style-type: none">• Make a graph of the analyzed variable and determine the nature of its changes in the analysed period.• Forecast this variable for the next period using an appropriate adaptive method and a trend or trend model with seasonality.• Assess the usefulness of the selected method on the basis of the ex-ante and ex-post quality measures.• Interpret the obtained results.		
Work placement	Not applicable		

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