

Subject card

Subject name and code	APPLICATION OF ECONOMETRIC METHODS IN MANAGEMENT, PG_00060948								
Field of study	Management								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2024/2025			
Education level	second-cycle studies		Subject group			field o	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	at the university		
Year of study	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Katedra Statystyki i E	konometrii -> F	aculty of Mana	agement and E	conomi	cs			
Name and surname	Subject supervisor	dr inż. Agnieszka Wałachowska							
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	30.0	0.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan				tudy	SUM		
	Number of study hours	45		5.0		25.0		75	
Subject objectives	Models phenomena in the field of management and economics using in-depth econometric methods								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K7_W03] demonstrates in-depth preparation in the application of management methods and techniques for formulating and solving management problems		uses econometric models to solve complex management and economic problems, based on reliable sources of information			[SW1] Assessment of factual knowledge			
	[K7_U03] formulates research problems and selects appropriate research methods for their effective solution, using advanced IT tools, and evaluates the obtained results critically		formulates hypotheses and verifies them using advanced econometric models, using IT tools			[SU4] Assessment of ability to use methods and tools			
Subject contents	Econometric model - concept, elements and interpretation Classification of econometric models Simple and Multiple Regression Model Estimation Problems - Least Squares Method (LSM) Verification of the estimated form of the model - a measure of the quality of fit Stochastic verification of the estimated form of the model - standard error of estimators and testing the significance of parameters Autocorrelation - causes and testing The concept of conditional econometric forecast Multiplicative models - problems of estimation and interpretation Simple methods of time series analysis - development trend models Cause and effect dynamic models - problems of interpretation Cause and effect models of production and work efficiency Cause and effect model of labor demand Cause and effect wage model The cause and effect model of inflation								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Test I and II		60.0%		50.0%				
	Lecture test	60.0%			50.0%				

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Recommended reading	Basic literature	 Maddala G.S.: Ekonometria, Wydawnictwo Naukowe PWN, Warszawa 2024 Borkowski B., Dudek H., Szczesny W., Ekonometria Wybrane zagadnienia, PWN, Warszawa 2021 Kufel T., Ekonometria. Rozwiązywanie problemów z wykorzystaniem programu GRETL, PWN, Warszawa 2022 Kukuła K., Wprowadzenie do ekonometrii, PWN, Warszawa 2023 				
	Supplementary literature	 Welfe A., Ekonometria. Metody i ich zastosowanie, PWE Warszawa 2016 Witkowska D., Podstawy ekonometrii i teorii prognozowania, Kraków 2012 Gruszczyński M., Podgórska M., Ekonometria, Warszawa 2004 Bernardelii M., Decewicz A., Tomczyk E., Ekonometria i badania operacyjne. Zbiór zadań, PWN Warszawa 2021 Hill R., Griffiths W., Lim G., Principles of Econometrics, Wiley 2018 				
eResources addresses		Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Rozważ przyczynowo-skutkowy model płac: InWt = 1,8 +0,7 InAPLt - 0,15 In URt-1 gdzie: Wt - realna płaca w okresie t, APLt przeciętna produktywność pracy, URt stopa bezrobocia na koniec okresu t (w %) 1 Dokonując antylogarytmowania sprowadź model do postaci pierwotnej:					
Work placement	Not applicable					

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