

Subject card

Subject name and code	Modeling Sustainable Development, PG_00067956								
Field of study	Economics								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2027/2028			
Education level	first-cycle studies		Subject group		Optional subject group 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 -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor								
of lecturer (lecturers)	Teachers				1	<u></u>			
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory			Seminar	SUM	
	Number of study hours	15.0	0.0	30.0	0.0		0.0	45	
	E-learning hours inclu	-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	45	5.0			50.0		100	
Subject objectives	Describes the possibilities of using quantitative methods in terms of their selection and obtaining reliable data								
Learning outcomes	Course outcome Subject outcome Method of verification						fication		
	[K6_U07] uses advanced information technologies to enhance data analysis and decision-making processes.		is able to apply tools for the quantitative analysis of the implementation of the sustainable development concept.			[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information			
	[K6_W03] is familiar with reliable sources of information and employs advanced knowledge to explain the fundamental dilemmas of the contemporary economy		is familiar with reliable sources of information required for modeling sustainable development			[SW3] Assessment of knowledge contained in written work and projects			
Subject contents	Sustainable development as an example of a multidimensional phenomenon. Selection of indicators of sustainable development. Composite indicator of sustainable development - stimulation and normalization of variables. Composite indicator of sustainable development - aggregation and weighting of variables. Sensitivity analysis of the composite indicator of sustainable development. Linear ordering of countries according to the degree of achievement of the SDGs. Grouping countries according to the degree of achievement of the SDGs - taxonomic analyzes. The spatial taxonomic measure of sustainable development. Convergence in monitoring the achievement of the SDGs.								
Prerequisites and co-requisites	basic statistical and econometric skills								
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade				
and criteria	Group project		60.0%		100.0%				
Recommended reading	Basic literature Perło, D. (2014). Modelowanie zrównoważonego rozwoju. Białystok: Wydawnictwo Uniwerysteckie Trans Humana. Panek, T. Zwierzchowski, J. (2013). Statystyczne metody wielowymiarowej analizy porównawcze. Teoria i zastosowania, Warszawa: Oficyna Wydawnicza SGH. Młodak, A. (2006). Statystyczna analiza wielowymiarowa w statystyce regionalnej, Warszawa: Difin.						ania,		
	Supplementary literat	OECD (2008). Handbook on Constructing Composite Indicators. Methodology and User Guide. Paris: OECD Publications.							
	eResources addresses Adresy na platformie eNauczanie:								

Data wygenerowania: 03.05.2025 20:22 Strona 1 z 2

example questions/	Construct a composite indicator for the 7 th sustainable development goal. Prepare a linear ordering and group the European Union countries in terms of achieving this goal. Assess the convergence trends in the implementation of the seventh SDG.
Work placement	Not applicable

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