

Subject card

Subject name and code	MODELING OF SUSTAINABLE DEVELOPMENT, PG_00058527								
Subject name and code Field of study	Economics								
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Date of commencement of studies	October 2023		Academic year of realisation of subject			2025/2026			
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			assessment			
Conducting unit	Katedra Statystyki i E	atedra Statystyki i Ekonometrii -> Faculty of Managemer			conomi	cs			
Name and surname	Subject supervisor		dr Marta Kuc-Czarnecka						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	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		Participation i consultation h	articipation in Insultation hours		rudy	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 out	Subject outcome			Method of verification				
	[K6_U06] acquires new knowledge by planning lifelong learning strategies		necessary to conduct a			[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information			
	[K6_W03] identifies reliable sources of information relevant to the analyzed issues		identifies 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. Upward convergence in monitoring the achievement of the SDGs. Soft modelling of sustainable development.								
Prerequisites and co-requisites	basic statistical and e	conometric ski	lls						
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade				
and criteria	Group project		60.0%			100.0%			
Recommended reading			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.						
	Supplementary literature		OECD (2008). Handbook on Constructing Composite Indicators. Methodology and User Guide. Paris: OECD Publications.						
	eResources addresses		Adresy na platformie eNauczanie:						

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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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