

Subject card

Subject name and code	SPATIAL STATISTICS, PG_00049946							
Field of study	Economic Analytics							
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024		
Education level	second-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	2		Language of instruction			Polish		
Semester of study	3		ECTS credits			3.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Katedra Statystyki i Ekonometrii -> F		aculty of Management and Economics					
Name and surname	Subject supervisor		dr Marta Kuc-Czarnecka					
of lecturer (lecturers)	Teachers	dr Marta Kuc						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	roject 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 in consultation hours		udy	SUM
	Number of study hours	45		4.0		26.0		75
Subject objectives	To familiarize student	s with the poss	sibilities of usin	g GIS tools in t	he anal	ysis of s	spatial pheno	mena.
	To familiarize students with the specificity of the analytical process using vector and raster data models.							
Learning outcomes	Course outcome Subject outcome Method of verification							
	[K7_W10] has an in-depth knowledge of quantitative methods to describe and analyse socio-economic processes using information technology		can identify basic GIS tools and possibilities of their implementation in business spatial analytics.			[SW3] Assessment of knowledge contained in written work and projects		
	[K7_U08] has the ability to implement analytical methods to independently propose solutions to economic problems and verify their effectiveness					[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools		
Subject contents	Basic GIS Concepts GIS applications in scientific research Coordinate systems and map projections Acquiring spatial data Methods of symbolization and visualization of research results Vector Data Model Raster Data Model Digital Terrain Model Spatial neighborhood Spatial modeling and interpolation Network analysis							
Prerequisites and co-requisites								
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	Group project		60.0%			100.0%		
Recommended reading	Basic literature	 Urbański, J. (2020) STO stron GIS, Wydawnictwo Uniwersytetu Gdańskiego Iwańczak, B. (2012) QGIS 3.14 Tworzenie i analiza map, Helion Longley P.A. (2008) GIS. Teoria i praktyka, PWN 						

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	Supplementary literature	Malczewski, J., Jaroszewicz J. (2018). Podstawy analiz wielokryterialnych w Systemach Informacji Geograficznej, Wydawnictwo Politechniki Warszawskiej
	eResources addresses	Adresy na platformie eNauczanie:
		Statystyka przestrzenna 2023/2024 - Moodle ID: 27956 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27956
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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