

Subject card

Subject name and code	Statistics in Geography - laboratory, PG_00193791						
Field of study	Geography						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Mirosława Malinowska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	E-learning hours included: 0.0						
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	30		2.0		18.0	50
Subject objectives	Course participants will acquire knowledge and skills in the correct selection and use of advanced statistical methods depending on the type of data available and the research problem being solved, as well as in interpreting the results obtained.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[GEOGRL3-U04] can apply field and laboratory methods and research tools, spatial analysis methods, and methods of presenting research results in the field of geography, assess their usefulness for tasks in which the application goal of geography can be realized		Correctly selects and applies statistical methods to process data concerning the geographical environment and interpret the results obtained.		[SU4] test/exam - oral or written		
	[GEOGRL3-W06] knows advanced methods of acquiring, processing, and compiling geographic environmental data, as well as methods of analyzing and interpreting such data		Indicates statistical methods of data processing appropriate for the research problem being analysed and knows the principles of interpreting the results obtained.		[SW4] test/exam - oral or written		
	[GEOGRL3-K01] is prepared to critically assess the level of one's knowledge, use it in professional activities and, in case of difficulties, to be assisted by the knowledge of experts		Is ready to critically assess his level of knowledge of statistical methods used in geographical research.		[SK8] observation of student's independent or team work		

Subject contents	1. Specific and distributional ranges, measures of position, dispersion, skewness and kurtosis, graphical techniques for data presentation 2. Analysis of interdependence and correlation 3. Regression and trend function 4. Probability introduction, statistical distributions		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	observation of student work	51.0%	10.0%
	test	51.0%	90.0%
Recommended reading	Basic literature	literature only in Polish	
	Supplementary literature	literature only in Polish	
	eResources addresses		
Example issues/ example questions/ tasks being completed	1. For the given statistical series, determine the mean, median, mode, first and third quartiles. Plot a histogram and distribution curve. 2. Based on the data, determine the regression equation and then check its statistical significance.		
Work placement	Not applicable		

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