

Subject card

Subject name and code	Quantitative research strategy, PG_00149971						
Field of study	Special Pedagogy						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2026/2027		
Education level	uniform Master'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	3	Language of instruction			Polish Polish language		
Semester of study	5	ECTS credits			2.0		
Learning profile	academic	Assessment form			exam		
Conducting unit	Division of Research on Childhood and School -> Institute of Education -> Faculty of Social Sciences -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Bartosz Atroszko				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
	Additional information: Lecture						
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	15		0.0		40.0	55
Subject objectives	<p>1. Developing the ability to analyze and interpret the results of scientific research conducted in accordance with the quantitative strategy.</p> <p>2. Developing the ability to plan and conduct research in accordance with a quantitative strategy (i.e. formulating a research problem, formulating research hypotheses, determining what is a dependent variable and what are independent variables, developing a simple survey questionnaire and performing statistical analyses, and then formulating on this basis conclusions from the study).</p>						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[PEDSPECJ5_U08] The graduate can analyse exemplary research and to construct and conduct pedagogical research; he/she can formulate conclusions, process and present the results (using ICT) and indicate directions for further research	Nie dotyczy	[SU4] test/exam - oral or written
	[PEDSPECJ5_W15] Has in-depth knowledge of methods, techniques and data acquisition tools indispensable in designing and conducting research in pedagogy and special pedagogy; knows basic paradigmatic traditions of social and humanistic research from which particular methods originate; knows the specificity of research on persons with disabilities and persons from their environment	Nie dotyczy	[SW4] test/exam - oral or written
Subject contents	1. Characteristics of quantitative research in social sciences. 2. Defining the issues, subject and purpose of research; formulating research problems/hypotheses; defining variables and indicators. 3. Quantitative research methods with particular emphasis on the possibilities of their use in pedagogical research and limitations in their use. 4. Constructing research tools and possibilities of their use. 5. Selection of the area and samples for research (sample and population, representativeness of the sample and its selection patterns). 6. Development and analysis of research materials (measurement and measurement scales, grouping of data, their graphical representation). 7. Preparation of the concept of a research microproject. 8. Determining the ethical aspects of planned research. Research on disabled people. 9. Discussion on the project and its improvement. 10. Designing tools in connection with the assumptions of the research project. Improving tools by taking into account discussions on them during classes. 11. Creating a database. 12. Planning and implementation of research in the JASP package. 13. Interpretation of the obtained research results. 14. Discussion of the results, along with their limitations. 15. Planning research directions.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		51.0%	100.0%
Recommended reading	Basic literature	Babbie E., <i>Badania społeczne w praktyce</i> , Wydawnictwo Naukowe PWN, Warszawa 2007.	
		King B. M., Minium E. W., <i>Statystyka dla psychologów i pedagogów</i> , Wydawnictwo Naukowe PWN, Warszawa 2009.	
	Supplementary literature	Konarzewski K., <i>Jak uprawiać badania oświatowe. Metodologia praktyczna</i> , WSiP, Warszawa 2000.	
		Pilch T., Bauman T., <i>Zasady badań pedagogicznych. Strategie ilościowe i jakościowe</i> , Wydawnictwo Akademickie Żak, Warszawa 2010.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	1. Benefits and limitations of using quantitative research methods and their ethical aspect. 2. Formulation of research problems/hypotheses, definition of variables and selection of research methods. 3. Developing a research tool and planning research implementation. 4. Analyzing and processing research results. 5. Using the basics of statistics in pedagogical research.		
Work placement	Not applicable		

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