

Subject card

Subject name and code	Quantitative research strategy, PG_00202470						
Field of study	Special Pedagogy						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2028/2029		
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		
Semester of study	5	ECTS credits			3.0		
Learning profile	academic	Assessment form			credit		
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	0.0	30.0	0.0	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		5.0		40.0	75
Subject objectives	Familiarizing students with the specifics of quantitative research, with knowledge about designing individual stages of the research procedure in a quantitative pedagogical research strategy. Equipping students with elementary research competences in the area of designing simple quantitative research strategies and research tools, as well as developing and presenting quantitative data. Knowledge and ability to work in the JASP package.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	<p>[G.W.8] Knows and understands the principles and techniques of preparing scientific papers</p>	<p>1. In terms of knowledge, the graduate knows and understands:</p> <p>1.2. Methodology of scientific research applied in the fields of humanities and social sciences, in particular the principles of designing and conducting scientific research in the field of special education, and the postulate of multi-paradigm;</p> <p>1.2. Methodological assumptions and principles and ethical standards of designing and conducting scientific research in the field of special education.</p> <p>2. In terms of skills, the graduate is able to:</p> <p>2.1. Recognize and interpret social phenomena, showing their connections with various scopes of special education, fields of social sciences, humanities, medical and health sciences;</p> <p>2.2. distinguish methodological orientations in scientific research in the field of education, formulate research goals and problems, apply the selection of adequate methods and techniques, construct research tools, develop, present and interpret research results, draw conclusions, indicate directions for further research within the selected scope of special education;</p> <p>2.3. use basic psychological knowledge and advanced pedagogical knowledge and obtain data to analyse behaviours, processes and phenomena in the area of rehabilitation, education, therapy and resocialisation;</p> <p>2.4. work in a team, playing various roles, undertake and assign tasks, cooperate with teachers, specialists, parents and guardians of students;</p> <p>2.5. use the Polish language correctly and use specialist terminology correctly and appropriately to the age of students;</p> <p>2.6. cooperate with members of research teams at every stage of designing and implementing scientific research;</p> <p>2.7. independently develop knowledge and pedagogical skills using various sources, including foreign ones, and technologies;</p> <p>2.8. creatively use theories concerning human development, socialisation, upbringing, teaching and learning and evaluate them critically.</p> <p>3. In terms of social competences, the graduate is ready to:</p> <p>3.1. working in a team, playing different roles in it and cooperating with teachers, pedagogues, specialists, parents or guardians of students and other members of the school and local community;</p> <p>3.2. appreciating the tradition and achievements of scientific</p>	<p>[SW2] presentation/project/paper/report</p>

	Course outcome	Subject outcome	Method of verification
		research in the field of special education and continuing and expanding them to include new areas and research procedures.	

	Course outcome	Subject outcome	Method of verification
	<p>[G.K.2] is ready to apply ethical standards in research work</p>	<p>1. In terms of knowledge, the graduate knows and understands: 1.2. Methodology of scientific research applied in the fields of humanities and social sciences, in particular the principles of designing and conducting scientific research in the field of special education, and the postulate of multi-paradigm; 1.2. Methodological assumptions and principles and ethical standards of designing and conducting scientific research in the field of special education.</p> <p>2. In terms of skills, the graduate is able to: 2.1. Recognize and interpret social phenomena, showing their connections with various scopes of special education, fields of social sciences, humanities, medical and health sciences; 2.2. distinguish methodological orientations in scientific research in the field of education, formulate research goals and problems, apply the selection of adequate methods and techniques, construct research tools, develop, present and interpret research results, draw conclusions, indicate directions for further research within the selected scope of special education; 2.3. use basic psychological knowledge and advanced pedagogical knowledge and obtain data to analyse behaviours, processes and phenomena in the area of rehabilitation, education, therapy and resocialisation; 2.4. work in a team, playing various roles, undertake and assign tasks, cooperate with teachers, specialists, parents and guardians of students; 2.5. use the Polish language correctly and use specialist terminology correctly and appropriately to the age of students; 2.6. cooperate with members of research teams at every stage of designing and implementing scientific research; 2.7. independently develop knowledge and pedagogical skills using various sources, including foreign ones, and technologies; 2.8. creatively use theories concerning human development, socialisation, upbringing, teaching and learning and evaluate them critically.</p> <p>3. In terms of social competences, the graduate is ready to: 3.1. working in a team, playing different roles in it and cooperating with teachers, pedagogues, specialists, parents or guardians of students and other members of the school and local community; 3.2. appreciating the tradition and achievements of scientific</p>	<p>[SK2] presentation/project/paper/report</p>

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	Course outcome	Subject outcome	Method of verification
	<p>[G.U.2] Is able to analyze and interpret research results and formulate pedagogical conclusions from the conducted research.</p>	<p>1. In terms of knowledge, the graduate knows and understands: 1.2. Methodology of scientific research applied in the fields of humanities and social sciences, in particular the principles of designing and conducting scientific research in the field of special education, and the postulate of multi-paradigm; 1.2. Methodological assumptions and principles and ethical standards of designing and conducting scientific research in the field of special education.</p> <p>2. In terms of skills, the graduate is able to: 2.1. Recognize and interpret social phenomena, showing their connections with various scopes of special education, fields of social sciences, humanities, medical and health sciences; 2.2. distinguish methodological orientations in scientific research in the field of education, formulate research goals and problems, apply the selection of adequate methods and techniques, construct research tools, develop, present and interpret research results, draw conclusions, indicate directions for further research within the selected scope of special education; 2.3. use basic psychological knowledge and advanced pedagogical knowledge and obtain data to analyse behaviours, processes and phenomena in the area of rehabilitation, education, therapy and resocialisation; 2.4. work in a team, playing various roles, undertake and assign tasks, cooperate with teachers, specialists, parents and guardians of students; 2.5. use the Polish language correctly and use specialist terminology correctly and appropriately to the age of students; 2.6. cooperate with members of research teams at every stage of designing and implementing scientific research; 2.7. independently develop knowledge and pedagogical skills using various sources, including foreign ones, and technologies; 2.8. creatively use theories concerning human development, socialisation, upbringing, teaching and learning and evaluate them critically.</p> <p>3. In terms of social competences, the graduate is ready to: 3.1. working in a team, playing different roles in it and cooperating with teachers, pedagogues, specialists, parents or guardians of students and other members of the school and local community; 3.2. appreciating the tradition and achievements of scientific</p>	<p>[SU2] presentation/project/paper/report</p>

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	Course outcome	Subject outcome	Method of verification
	<p>[G.U.6] Is able to conduct the inference process and present research results</p>	<p>1. In terms of knowledge, the graduate knows and understands: 1.2. Methodology of scientific research applied in the fields of humanities and social sciences, in particular the principles of designing and conducting scientific research in the field of special education, and the postulate of multi-paradigm; 1.2. Methodological assumptions and principles and ethical standards of designing and conducting scientific research in the field of special education.</p> <p>2. In terms of skills, the graduate is able to: 2.1. Recognize and interpret social phenomena, showing their connections with various scopes of special education, fields of social sciences, humanities, medical and health sciences; 2.2. distinguish methodological orientations in scientific research in the field of education, formulate research goals and problems, apply the selection of adequate methods and techniques, construct research tools, develop, present and interpret research results, draw conclusions, indicate directions for further research within the selected scope of special education; 2.3. use basic psychological knowledge and advanced pedagogical knowledge and obtain data to analyse behaviours, processes and phenomena in the area of rehabilitation, education, therapy and resocialisation; 2.4. work in a team, playing various roles, undertake and assign tasks, cooperate with teachers, specialists, parents and guardians of students; 2.5. use the Polish language correctly and use specialist terminology correctly and appropriately to the age of students; 2.6. cooperate with members of research teams at every stage of designing and implementing scientific research; 2.7. independently develop knowledge and pedagogical skills using various sources, including foreign ones, and technologies; 2.8. creatively use theories concerning human development, socialisation, upbringing, teaching and learning and evaluate them critically.</p> <p>3. In terms of social competences, the graduate is ready to: 3.1. working in a team, playing different roles in it and cooperating with teachers, pedagogues, specialists, parents or guardians of students and other members of the school and local community; 3.2. appreciating the tradition and achievements of scientific</p>	<p>[SU2] presentation/project/paper/report</p>

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		research in the field of special education and continuing and expanding them to include new areas and research procedures.	

	Course outcome	Subject outcome	Method of verification
	<p>[G.W.4] Knows and understands the methods of presenting research results and the principles of preparing and developing different types of scientific texts</p>	<p>1. In terms of knowledge, the graduate knows and understands: 1.2. Methodology of scientific research applied in the fields of humanities and social sciences, in particular the principles of designing and conducting scientific research in the field of special education, and the postulate of multi-paradigm; 1.2. Methodological assumptions and principles and ethical standards of designing and conducting scientific research in the field of special education.</p> <p>2. In terms of skills, the graduate is able to: 2.1. Recognize and interpret social phenomena, showing their connections with various scopes of special education, fields of social sciences, humanities, medical and health sciences; 2.2. distinguish methodological orientations in scientific research in the field of education, formulate research goals and problems, apply the selection of adequate methods and techniques, construct research tools, develop, present and interpret research results, draw conclusions, indicate directions for further research within the selected scope of special education; 2.3. use basic psychological knowledge and advanced pedagogical knowledge and obtain data to analyse behaviours, processes and phenomena in the area of rehabilitation, education, therapy and resocialisation; 2.4. work in a team, playing various roles, undertake and assign tasks, cooperate with teachers, specialists, parents and guardians of students; 2.5. use the Polish language correctly and use specialist terminology correctly and appropriately to the age of students; 2.6. cooperate with members of research teams at every stage of designing and implementing scientific research; 2.7. independently develop knowledge and pedagogical skills using various sources, including foreign ones, and technologies; 2.8. creatively use theories concerning human development, socialisation, upbringing, teaching and learning and evaluate them critically.</p> <p>3. In terms of social competences, the graduate is ready to: 3.1. working in a team, playing different roles in it and cooperating with teachers, pedagogues, specialists, parents or guardians of students and other members of the school and local community; 3.2. appreciating the tradition and achievements of scientific</p>	<p>[SW2] presentation/project/paper/report</p>

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	<p>[G.W.6] has an in-depth knowledge and understanding of research objectives and types of research in the context of their practical application; ways of practical use of scientific research, including analysis and diagnosis of the situation, analysis of social and pedagogical problems, determining needs and planning interventions, evaluation of achievements; critical-emancipatory and transformative potential of scientific research</p>	<p>1. In terms of knowledge, the graduate knows and understands: 1.2. Methodology of scientific research applied in the fields of humanities and social sciences, in particular the principles of designing and conducting scientific research in the field of special education, and the postulate of multi-paradigm; 1.2. Methodological assumptions and principles and ethical standards of designing and conducting scientific research in the field of special education.</p> <p>2. In terms of skills, the graduate is able to: 2.1. Recognize and interpret social phenomena, showing their connections with various scopes of special education, fields of social sciences, humanities, medical and health sciences; 2.2. distinguish methodological orientations in scientific research in the field of education, formulate research goals and problems, apply the selection of adequate methods and techniques, construct research tools, develop, present and interpret research results, draw conclusions, indicate directions for further research within the selected scope of special education; 2.3. use basic psychological knowledge and advanced pedagogical knowledge and obtain data to analyse behaviours, processes and phenomena in the area of rehabilitation, education, therapy and resocialisation; 2.4. work in a team, playing various roles, undertake and assign tasks, cooperate with teachers, specialists, parents and guardians of students; 2.5. use the Polish language correctly and use specialist terminology correctly and appropriately to the age of students; 2.6. cooperate with members of research teams at every stage of designing and implementing scientific research; 2.7. independently develop knowledge and pedagogical skills using various sources, including foreign ones, and technologies; 2.8. creatively use theories concerning human development, socialisation, upbringing, teaching and learning and evaluate them critically.</p> <p>3. In terms of social competences, the graduate is ready to: 3.1. working in a team, playing different roles in it and cooperating with teachers, pedagogues, specialists, parents or guardians of students and other members of the school and local community; 3.2. appreciating the tradition and achievements of scientific</p>	<p>[SW2] presentation/project/paper/report</p>

	Course outcome	Subject outcome	Method of verification
			research in the field of special education and continuing and expanding them to include new areas and research procedures.
Subject contents	1. Benefits and limitations of using quantitative research methods and their ethical aspect. 2. Formulating research problems/hypotheses, defining variables and selecting research methods. 3. Developing a research tool and planning the research. 4. Analyzing and developing research results. 5. Using the basics of statistics in pedagogical research.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Nie dotyczy	51.0%	100.0%
Recommended reading	Basic literature	Nie dotyczy	
	Supplementary literature	Nie dotyczy	
	eResources addresses		
Example issues/ example questions/ tasks being completed	1. Benefits and limitations of using quantitative research methods and their ethical aspect. 2. Formulating research problems/hypotheses, defining variables and selecting research methods. 3. Developing a research tool and planning the research. 4. Analyzing and developing research results. 5. Using the basics of statistics in pedagogical research.		
Work placement	Not applicable		

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