



Subject card

Subject name and code	Practical aspects of scientific research, PG_00045753						
Field of study	Geodesy and Cartography						
Date of commencement of studies	February 2026	Academic year of realisation of subject			2026/2027		
Education level	second-cycle studies	Subject group					
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			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Mechanics of Materials and Structures -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Łukasz Pyrzowski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	15.0	0.0	0.0	0.0	45
	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	45		8.0		22.0	75
Subject objectives	Gaining knowledge about research methods used in technical sciences and in an educational practice of the Faculty. Acquisition of skills in conducting scientific discussion. Acquisition of ability to search and combine information from various studies available in Polish and global resources. Acquisition of skills to conduct quantitative and qualitative research in the field of geodesy and cartography as well as civil engineering.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		

Subject contents	<p>Course content – lecture Research methods and methodologies.</p> <p>Use of data resource.</p> <p>Data archives in Poland and in the world. Data Access Policy.</p> <p>Consultation on the methodology of writing a scientific article.</p> <p>Research diagrams.</p> <p>Consultations regarding the use of data.</p> <p>Consultations for performing numerical analysis.</p> <p>Interpretation of analysis results.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		60.0%	10.0%
		60.0%	50.0%
		80.0%	40.0%
Recommended reading	Basic literature	Creswell J.: Qualitative, Quantitative, and Mixed Methods Approaches, SAGE Publications, Inc; Fifth edition, 2018	
	Supplementary literature	Węglińska M.: Jak pisać pracę magisterską. Poradnik dla studentów., Wyd. Impuls Kraków 2016.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Development of a design/research issue using numerical modeling techniques.		
Practical activities within the subject	Not applicable		

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