

Subject card

Subject name and code	Research project I, PG_00061297							
Field of study	Mathematics							
Date of commencement of studies	October 2023		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	1		Language of instruction			Polish		
Semester of study	1		ECTS credits			1.0		
Learning profile	general academic profile		Assessme	nt form	assessment			
Conducting unit	Divison of Nonlinear Analysis -> Institute of Applied Mathematics -> Faculty of Applied Physics and Mathematics							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Magdalena Chmara					
	Teachers		dr inż. Magdalena Chmara					
			dr inż. Anna Szafrańska					
			dr inż. Maciej Starostka					
			,					
			dr inż. Jakub Maksymiuk					
			dr inż. Karol Wroński					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	15.0		0.0	15
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	15		2.0		8.0		25
Subject objectives	The aim of the course is to prepare students to conduct research. At the beginning, students become acquainted with the researcher's skills, learn what scientific work involves, how scientific articles are written, learn a specialized language and tools used in scientific work, as well as become acquainted with the formal aspects of conducting scientific research, including the doctoral studies and the of financing research projects in Poland and abroad.							

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Course outcome	Subject outcome	Method of verification				
[K7_U02] Has the ability to check the correctness of conclusions in constructing formal proofs, sees formal structures related to the basic areas of mathematics in mathematical issues and understands the importance of their properties.	The student understands the use of specialized literature, examines the truthfulness of the hypotheses, and is able to formulate and prove abstract mathematical theorems.	[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools				
[K7_K03] Can work as a team; understands the necessity of systematic work on all projects that are long-term in nature, understands and appreciates the importance of intellectual honesty in one's own activities and the activities of other people; behaves ethically. [K7_W05] Has enhanced knowledge of a selected branch of mathematics: knows most classical definitions and theorems and their proofs, Understands problems being examined, Knows relations between problems from particular field with other branches of mathematics, theoretical and applied		[SK1] Assessment of group work skills [SK2] Assessment of progress of work [SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness				
		[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge				
What would I have liked to have known when I started my scientific work? About the scientific method Doctoral studies. Obtaining funds for scientific research in Poland and abroad English in the work of a scientist IT tools in scientific work						
General knowledge of mathematics obtained during bachelor's studies. Basic knowledge of English.						
Subject passing criteria	Passing threshold	Percentage of the final grade				
Exercises	50.0%	100.0%				
Basic literature	Wydawnictwo Oświatowe, 1993; sei Mathematical Society, 2005)	nematical Papers in English. A Practical Guide (Gdańskie vo Oświatowe, 1993; second revised edition, European al Society, 2005) al English Usage. A Dictionary (online, 2000, continuously				
Supplementary literature	https://www.youtube.com/@cnepg Wheres My Mentor?! Characterizing Negative Mentoring Experiences in Undergraduate Life Science ResearchLisa B. Limeri, Muhammad Zaka Asif, Benjamin H. T. Bridges, David Esparza, Trevor T. Tuma, Daquan Sanders, Alexander J. Morrison, Pallavi Rao, Joseph A. Harsh, Adam V. Maltese, and Erin L. DolaPublished Online:22 Nov 2019https://doi.org/10.1187/cbe.19-02-0036					
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	eResources addresses	Podstawowe
		https://www.youtube.com/watch?v=FtrEXWbNRzQ -
		https://arxiv.org/ - free distribution service and an open-access archive, , access date: October 27, 2023
		https://www.researchgate.net/ - Researchgate, access date: October 27, 2023
		https://www.fnp.org.pl/ - Foundation for Polish Science, access date: October 27, 2023
		https://www.ncn.gov.pl/ - National Science Center, access date: October 27, 2023
		https://www.scopus.com/h - Scopus, access date: October 27, 2023
		https://mathscinet.ams.org/mathscinet/publications-search - AMS, access date: October 27, 2023
		https://www.mathjobs.org/ - search engine for job offers for mathematicians at universities, access date: October 27, 2023
		https://www.impan.pl/pl/dzialalnosc/centrum-banacha/konferencje - conferences in the Banach center, access date: October 27, 2023
		https://conference-service.com/conferences/mathematics- research.html - conference search engine, access date: October 27, 2023
		https://www.daad.de/ - DAAD, , access date: October 27, 2023
		https://nawa.gov.pl/ - National Agency for Academic Exchange, access date: October 27, 2023
		Adresy na platformie eNauczanie:
		Projekt Badawczy I - Moodle ID: 34673 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=34673
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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