

Subject card

Subject name and code	MSc Diploma Thesis, PG_00030020							
Field of study	Mathematics							
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025		
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	2		Language of instruction			Polish		
Semester of study	4		ECTS credits			18.0		
Learning profile	general academic profile		Assessment form		assessment			
Conducting unit	Instytut Matematyki Stosowanej -> Faculty of Applied Physics and Mathematics							
Name and surname of lecturer (lecturers)	Subject supervisor Teachers							
Lesson types and methods of instruction	Lesson type Number of study hours E-learning hours inclu	0.0 uded: 0.0	Tutorial 0.0	Laboratory 0.0	Projec 0.0	t	Seminar 60.0	SUM 60
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	60		40.0		350.0		450
Subject objectives	Organization of the master thesis writing process. Introduction of the graduates into advanced innovative technologies and creative approaches to their solutions.							

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[K7_U10] In a selected field, can examine evidence, in which, if necessary, also can use tools from other branches of mathematics, can identify one's own interests and develop them; in particular, is able to establish contact with specialists in their field, e.g. understand their lectures intended for young mathematicians.	Student thinks logically	[SU1] Assessment of task fulfilment				
	[K7_U01] Has the ability to construct mathematical reasoning: proving theorems and refuting hypotheses by constructing and selecting counterexamples, has the ability to express mathematical content in speech and in writing, in mathematical texts of various types.	Student is able to edit mathematical text	[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task				
	[K7_W03] Knows the most important theorems and hypotheses of main branches of mathematics.	Student possesses mathematical culture	[SW3] Assessment of knowledge contained in written work and projects				
	[K7_K04] Can form opinions on fundamental mathematical issues.	Is able to verify his theses	[SK4] Assessment of communication skills, including language correctness				
	[K7_K01] Knows the limitations of one's own knowledge and understands the need for further education, can independently search for information in literature, also in foreign languages.	Student knows the literature of his subject	[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work				
Subject contents	Solving advanced and complex particular or general tasks coming from innovative technological sectors or from pure sciences.						
Prerequisites and co-requisites	depends on the subject and speciality						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	diploma thesis	51.0%	100.0%				
Recommended reading	Basic literature Supplementary literature	No recomendations No recomendations					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	estions/ medical and pension schemes. Mathematical modelling of an enterpise, branch, society, state progress or						
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Work placement	Not applicable						

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