



Subject card

Subject name and code	MSc Diploma Thesis, PG_00064006						
Field of study	Mathematics						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
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	Institute of Applied Mathematics -> Faculty of Applied Physics and Mathematics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Robert Krawczyk					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	0.0	0
	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	0	30.0		420.0	450	
Subject objectives	Organization of the master thesis writing process. Introduction of the graduates into advanced innovative technologies and creative approaches to their solutions.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_U08] in a selected field, examines evidence, in which also can use tools from other branches of mathematics,	Student thinks logically			[SU1] Assessment of task fulfilment		
	[K7_K04] forms opinions on mathematical issues	Is able to verify his theses			[SK4] Assessment of communication skills, including language correctness		
	[K7_U01] has the ability to construct mathematical reasoning, proving theorems and refuting hypotheses	Student is able to edit mathematical text			[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment		
[K7_K01] acknowledges the limitations of one's own knowledge and understands the need for further education, independently searches for information in literature, also in foreign languages	Student knows the literature of his subject			[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice			
Subject contents							
Prerequisites and co-requisites	depends on the subject and speciality						
Assessment methods and criteria	Subject passing criteria	Passing threshold		Percentage of the final grade			
	diploma thesis	51.0%		100.0%			
Recommended reading	Basic literature	No recommendations					

	Supplementary literature	No recommendations
	eResources addresses	
Example issues/ example questions/ tasks being completed	Description of a disease evolution. The hazard functions of cancer diseases. Mathematical modelling of medical and pension schemes. Mathematical modelling of an enterprise, branch, society, state progress or ruin. Operator ergodic theory. Branching processes. Birth and death processes. Cancer phylogeny. Graph Theory in social-economic sciences. Chaos Theory of financial markets. Computer methods of innovative technologies. Statistical analysis. Game theory in biology.	
	Methods of nonlinear analysis.	
Practical activities within the subject	Not applicable	

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