

GDAŃSK UNIVERSITY

Subject card

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Subject name and code	MSc Diploma Thesis, PG_00030020								
Field of study	Mathematics								
Date of commencement of studies	October 2022		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	2		Language of instruction			Polish			
Semester of study	4		ECTS credits			18.0	18.0		
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Instytut Matematyki Stosowanej -> F		aculty of Applied Physics and Mathematics						
Name and surname	Subject supervisor		dr hab. Zdzisław Dzedzej						
of lecturer (lecturers)	Teachers		prof. dr hab. Joanna Janczewska dr hab. Zdzisław Dzedzej						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	0.0	0.0		60.0	60	
	E-learning hours inclu	uded: 0.0						-	
Learning activity and number of study hours	Learning activity Participation in classes include plan		n didactic led in study	Participation in consultation hours		Self-study SUM			
	Number of study 60 hours			40.0		350.0 450		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_K04		Is able to verify his theses			[SK4] Assessment of communication skills, including language correctness			
	K7_K01		Student knows the literature of his subject			[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice			
	K7_U01		Student is able to edit mathematical text			[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment			
	K7_U10		Student thinks logically			[SU1] Assessment of task fulfilment			
	K7_W03		Student possesses mathematical culture			[SW3] Assessment of knowledge contained in written work and projects			
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		No recomenda	ations					

	Supplementary literature	No recomendations			
	eResources addresses	Adresy na platformie eNauczanie:			
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 enterpise, 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 finanacial markets. Computer methods of innovative technologies. Statistical analysis. Game theory in biology.				
Work placement	Not applicable				