GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

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
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	dr hab. Zdzisław Dzedzej	
	Teachers	prof. dr hab. Joanna Janczewska dr hab. Zdzisław Dzedzej	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	0.0	60.0	60

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	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.

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 and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
diploma thesis	51.0%	100.0%

Recommended reading

Basic literature	No recomendations

	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. Methods of nonlinear analysis.	
Work placement	Not applicable	