GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Diploma seminar MF, PG_00025581
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	2.0
Learning profile	general academic profile	Assessment form	assessment

Conducting unit	Faculty of Applied Physics and Mathematics

Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Zdzisław Dzedzej
	Teachers	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	30.0	30
	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	30	5.0	15.0	50

Subject objectives	Two main aims: a) presentation of partial results concerning students' theses and their subjects b) preparation to the diploma exam by presentation and discussion of answers to exam questions

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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.	presentation of some answers to the exam subjects	[SK4] Assessment of communication skills, including language correctness
	[K7_W04] Has enhanced knowledge of a selected branch of mathematics, theoretical or applied.	presentation of parts of the diploma thesis and discussion	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation
	[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.	presentation of examples to illustrate results of the thesis	[SU5] Assessment of ability to present the results of task
	[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.	presentation of some proofs from the subject of thesis	[SU5] Assessment of ability to present the results of task

Subject contents	Exam subjects: general and special
	Topics of diploma theses of participants

Prerequisites and co-requisites	

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	students presentations	50.0%	100.0%

Recommended reading	Basic literature	Literature depends on students topics
	Supplementary literature	1. files prepared by older students concerning exam subjects 2. lecture notes 3.L. A. Steen (ed.), Mathematcs Today, Springer, 1979
	eResources addresses	Adresy na platformie eNauczanie: Seminarium mgr Matematyka 25 - Moodle ID: 44466 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=44466

Example issues/ example questions/ tasks being completed	Notion of Banach space
	Notion of Hilbert space
	Wiener process and i's properties

Work placement	Not applicable

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