

Subject card

Subject name and code	Master Seminar IV, PG_00210336						
Field of study	Mathematics						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2027/2028		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study 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		3.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Institute of Mathematics -> Faculty of Mathematics, Physics and Informatics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Tomasz Człapiński				
	Teachers						
Lesson types	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		40.0	75
Subject objectives	The aim of the seminar is to prepare students for independent research and professional work, creatively solving mathematical problems using various tools.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[MATMU2_U07] can present results from a selected field of mathematics or its applications in writing, orally, as a multimedia presentation or poster, using specialist terminology; can find the necessary information in specialist literature, both in databases and other sources	The student is able to prepare and deliver in-depth oral presentations in Polish and at least one foreign language on topics from a selected area of mathematics, presenting knowledge clearly and convincingly.	[SU2] presentation/project/paper/report
	[MATMU2_U10] is able to determine directions for further improvement of knowledge and skills (including self-education) within the scope of the chosen specialization and beyond, and direct others in this area, e.g. through popularization	The student is able to choose a mathematical problem that interests him/her, develop it and present it in a form that demonstrates his/her competence in conducting classes popularizing mathematics.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[MATMU2_U06] can effectively communicate on specialized topics in the field of mathematics and its applications with diverse audiences (specialists and non-specialists), skillfully justifying their position; can lead a debate	The student is able to identify and develop their scientific interests systematically. They are capable of establishing contact with specialists in their field and understanding lectures and materials aimed at young mathematicians.	[SU1] oral statement/conversation/discussion [SU8] observation of student's independent or team work
	[MATMU2_W04] knows and understands the legal and ethical conditions related to scientific and teaching activities	The student understands and appreciates the importance of intellectual honesty and knows and understands ethical issues in the context of research reliability.	[SW1] oral statement/conversation/discussion
	[MATMU2_W06] knows and understands the current directions of development of mathematics and its applications and the related fundamental dilemmas of modern civilization	The student knows and understands the current directions of development of a selected field of theoretical or applied mathematics, and is able to interpret and analyze the formulations of issues that are at the stage of scientific research.	[SW2] presentation/project/paper/report
Subject contents	Presentation and discussion of topics covered in the diploma theses.		
Prerequisites and co-requisites	- Basic knowledge of mathematical analysis and linear algebra. - Ability to read and understand scientific texts in English.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Activity during classes	51.0%	20.0%
	Oral presentations and written reports	51.0%	80.0%
	Observation of the student's attitude	51.0%	0.0%
Recommended reading	Basic literature	1. Halmos, P. R. (1970). How to Write Mathematics. L'Enseignement Mathématique, 16(1), 123-152. 2. Halmos, P. R. (1974). How to Talk Mathematics. Notices Amer. Math. Soc., 21, 155-158.	
	Supplementary literature	J. Trzeciak, Writing Mathematical Papers in English. A Practical Guide, 2nd revised edition, European Mathematical Society, 2005.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	not included		
Work placement	Not applicable		

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