

Subject card

Subject name and code	One-dimensional dynamical systems, PG_00179023						
Field of study	Mathematics						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	Master's studies		Subject group		Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		5.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Piotr Szuca				
	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		90.0	125
Subject objectives	To familiarize students with the elements of mathematical theories necessary to write a master's thesis.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[MATMU2_W07] knows and understands the basic legal and ethical conditions related to scientific and teaching activities	knows and understands the basic legal and ethical conditions related to the process of writing a master's thesis	[SW2] presentation/project/paper/report [SW3] text preparation/written work
	[MATMU2_U02] can express mathematical content in speech and writing, in mathematical texts of various nature	is able to express in speech and writing content related to the completed master's thesis	[SU2] presentation/project/paper/report [SU3] text preparation/written work
	[MATMU2_U03] can understand mathematical texts of various types from selected fields of mathematics	is able to understand mathematical texts in the field of mathematics related to the completed master's thesis	[SU2] presentation/project/paper/report [SU3] text preparation/written work
	[MATMU2_U04] is able, at an advanced level and including modern mathematics, to apply and present, orally and in writing, methods of at least one selected branch of mathematics	is able to apply methods of the branch of mathematics related to the master's thesis being carried out	[SU2] presentation/project/paper/report [SU3] text preparation/written work
	[MATMU2_U05] can perform proofs in a selected field and, if necessary, also use tools from other areas of mathematics	is able to prepare the proof necessary to complete a master's thesis	[SU2] presentation/project/paper/report [SU3] text preparation/written work
	[MATMU2_U07] is able to define his/her interests and develop them; in particular, is able to establish contact with specialists in his/her field, e.g. understand their lectures intended for young mathematicians	is able to determine which branches of mathematics are related to the master's thesis; is able to consult with mathematicians representing these branches	[SU8] observation of student's independent or team work
	[MATMU2_U08] is able to prepare in-depth written works in Polish and at least one foreign language in a selected field of mathematics	can write a master's thesis	[SU3] text preparation/written work
	[MATMU2_U09] can prepare oral presentations in-depth in Polish and at least one foreign language, in a selected field of mathematics	is able to present a report on his/her master's thesis	[SU2] presentation/project/paper/report
	[MATMU2_K01] is willing to acknowledge the limitations of his or her own knowledge and is willing to pursue further education	is ready to search for information outside the study program necessary to complete the master's thesis	[SK8] observation of student's independent or team work
	[MATMU2_K02] is ready to precisely formulate questions to deepen his/her understanding of a given topic or find missing elements of reasoning	is ready to search for information outside the study program necessary to complete the master's thesis	[SK8] observation of student's independent or team work
	[MATMU2_K04] is ready to understand and appreciate the importance of intellectual honesty in one's own and other people's actions; ethical conduct	is ready to understand and appreciate the importance of intellectual honesty in one's own and other people's actions; ethical conduct	[SK8] observation of student's independent or team work
	[MATMU2_K05] is ready to independently search for information in literature, also in foreign languages	is ready to search for information outside the study program necessary to complete the master's thesis	[SK8] observation of student's independent or team work
	[MATMU2_K06] is ready to formulate opinions on basic mathematical issues	is ready to formulate opinions on topics related to the completed master's thesis	[SK8] observation of student's independent or team work
	[MATMU2_W03] knows and understands in-depth a selected field of theoretical or applied mathematics and is able to understand the formulations of issues in this field that are still at the research stage and knows the connections of issues in this field with other areas of mathematics	knows and understands the field of mathematics related to the topic of the master's thesis being carried out	[SW2] presentation/project/paper/report [SW3] text preparation/written work
Subject contents	Presentation, discussion and discussion of the implemented master's thesis topics		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	observation of the student's attitude	100.0%	0.0%
	presentation	51.0%	50.0%
	written work	51.0%	50.0%

Recommended reading	Basic literature	Scientific articles on the basis of which master's theses are written.
	Supplementary literature	Books and articles related to master's thesis topics
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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