University of Gdańsk

Subject card

Subject name and code	One-dimensional dynamical systems, PG_00161261						
Field of study	Mathematical Modeling and Data Analysis						
Date of commencement of studies	October 2024		Academic year of realisation of subject	2024/2025			
Education level	Master's studies		Subject group				
Mode of study	full-time studies		Mode of delivery	at the university			
Year of study	1		Language of instruction	Polish			
Semester of study	2		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	dr hab. Piotr Szuca					
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
	[MMiADMU2_K06] is ready to form an opinion on basic mathematical issues	is ready to formulate opinions on the mathematical issues discussed in the master's thesis	[SK2] presentation/project/paper/ report
	[MMiADMU2_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 being researched and knows the links between the issues of this field and other branches of mathematics	knows and understands the field of mathematics related to the master's thesis being carried out	[SW2] presentation/project/paper/ report
	[MMiADMU2_W07] knows and understands the basic legal and ethical conditions related to research and teaching	knows and understands the basic legal and ethical conditions related to scientific and teaching activities	[SW2] presentation/project/paper/ report
	[MMiADMU2_U09] can prepare in-depth oral presentations in Polish and at least in one foreign language in a selected field of mathematics	is able to prepare oral presentations on topics related to the completed master's thesis	[SU2] presentation/project/paper/ report
	[MMiADMU2_U02] can express mathematical content in speech and in writing, in mathematical texts of various nature	is able to express mathematical content on topics related to the completed master's thesis	[SU2] presentation/project/paper/ report
	[MMiADMU2_U08] is able to in-depth preparation of texts in Polish and at least one foreign language, in a selected field of mathematics	can write fragments of a master's thesis	[SU2] presentation/project/paper/ report
	[MMiADMU2_K05] is ready to independently search for information in literature, also in foreign languages	is ready to independently search the literature for information necessary to prepare a master's thesis	[SK2] presentation/project/paper/ report
	[MMiADMU2_U05] is able to make proofs and analyzes in a given field, in which, if necessary, he also uses tools from other areas of mathematics	is able to write proofs and analyses related to writing a master's thesis	[SU2] presentation/project/paper/ report
	[MMiADMU2_U03] can understand mathematical texts from selected areas of mathematics	can understand mathematical texts required to prepare a master's thesis	[SU2] presentation/project/paper/ report
	[MMiADMU2_K04] is ready to understand and appreciate the importance of intellectual honesty in the actions of himself and others; is ready to act ethically	is ready to understand and appreciate the importance of intellectual honesty in one's own and other people's actions	[SK8] observation of student's independent or team work
	[MMiADMU2_K02] is ready to precisely formulate questions to deepen his own understanding of a given topic or to find missing elements of reasoning	is ready to ask questions to deepen his/her understanding of his/her master thesis topic	[SK2] presentation/project/paper/ report
	[MMiADMU2_K01] is ready to recognize the limitations of his own knowledge and is ready to continue his education	is ready to acknowledge the limitations of his/her own knowledge in the field of the master's thesis topic	[SK2] presentation/project/paper/ report
	[MMiADMU2_U04] can, at an advanced level and including modern mathematics, apply and present in speech and in writing the methods of at least one selected branch of mathematics	is able to use mathematical methods necessary to write a master's thesis	[SU2] presentation/project/paper/ report
	[MMiADMU2_U07] is able to define his 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	is able to direct his/her master's thesis so that it is consistent with his/her interests	[SU2] presentation/project/paper/ report
Subject contents	Presentation, discussion and discussion of the implemented master's thesis topics		
Prerequisites and co-requisites			

<table>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>observation of the student's attitude</td><td>100.0%</td><td>0.0%</td></tr>
<tr><td>presentation</td><td>51.0%</td><td>100.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Scientific articles on the basis of which master's theses are written.</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">Books and articles related to master's thesis topics</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3"></td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
</table>

Document generated electronically. Does not require a seal or signature.