

1.	Field of study	Mathematics
2.	Faculty	Faculty of Science and Technology
3.	Academic year of entry	2024/2025 (winter term)
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time

7. General information about the	General information about the module		
Module name	Optional Lecture		
Module code	W4-MT-S2-23-WFak		
Number of the ECTS credits	6		
Language of instruction	Polish		
Purpose and description of the content of education	Realizując Wykład fakultatywny student, kierując się swoimi zainteresowaniami, po konsultacji z opiekunem, dokonuje wyboru jednej z gałęzi matematyki w ramach wykładów dostępnych w ofercie wydziału. Wykłady fakultatywne realizowane na pierwszym semestrze mają na celu ugruntowanie i pogłębienie zdobytej przez studenta wiedzy z wybranej gałęzi matematyki. Wykład fakultatywny realizowany na kolejnym semestrze wprowadza studenta w bardziej zaawansowane techniki charakterystyczne dla wybranej gałęzi i wzbogaca wiedzę studenta w ramach wybranej gałęzi matematyki. Przedstawione na Wykładach fakultatywnych zagadnienia mają na celu dostarczenie studentowi szerokiej wiedzy z wybranej gałęzi matematyki oraz pobudzenie jego zainteresowań badawczych w obrębie wybranej gałęzi matematyki. Szczegółowe opisy poruszanej tematyki znajdują się w opisach oferowanych na wydziale wykładów fakultatywnych.		
List of modules that must be completed before starting this module (if necessary)	not applicable		

8. Learnin	Learning outcomes of the module				
Code	Description	Learning outcomes of the programme	Level of competenc (scale 1-5)		
WFak_1	zna większość definicji i twierdzeń wraz z dowodami	K_U05	5		
		K_W04	4		
WFak_2	rozumie sformułowania problemów otwartych i zagadnień pozostających na etapie badań	K_K05	5		
		K_W05	5		
WFak_3	umie na poziomie zaawansowanym stosować i przedstawiać w mowie i piśmie metody wybranej gałęzi matematyki	K_K01	5		
		K_U05	5		
		K_W04	5		
WFak_4	ma świadomość potrzeby uzupełnienia i poszerzenia swej wiedzy poprzez dalsze studiowanie literatury	K_K01	5		

9.	Methods of co	Methods of conducting classes		
	Code	Category	Name (description)	
a01		,	Formal lecture/ course-related lecture a systematic course of study involving a synthetic presentation of an academic discipline; its implementation assumes a passive reception of the information provided	
b08	3	Ü	Activating method – peer learning learning through the exchange of knowledge in a group/team/pair of students, i.e., in the so-called learning cell; a kind of mutual learning; an approach focused on student activity under the guidance of the person teaching the course; a learning situation where students with a similar level of experience learn from one another	

10. Forms of teach	Forms of teaching				
Code	Name		Assessment of the learning outcomes of the module	Learning outcomes of the module	Methods of conducting classes
WFak_fs_1	lecture	30	course work	WFak_1, WFak_2, WFak_3, WFak_4	a01
WFak_fs_2	discussion classes	30		WFak_1, WFak_2, WFak_3, WFak_4	b08

11. The student's work, apart from participation in classes, includes in particular:			
Code	Category	Name (description)	Is it part of the BUNA?
a02	Preparation for classes	Literature reading / analysis of source materials reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class	Yes
a03	Preparation for classes	Developing practical skills activities involving the repetition, refinement and consolidation of practical skills, including those developed during previous classes or new skills necessary for the implementation of subsequent elements of the curriculum (as preparation for class participation)	Yes
a04	Preparation for classes	Consulting materials complementary to those indicated in the syllabus agreeing on materials complementary to those indicated in the syllabus, supporting the implementation of tasks resulting from or necessary for class participation	Yes
b01	Consulting the curriculum and the organization of classes	Getting acquainted with the syllabus content reading through the syllabus and getting acquainted with its content	No
b02	Consulting the curriculum and the organization of classes	Verification / adjustment / discussion of syllabus provisions consulting the content of the syllabus, possibly in the presence of the year tutor or members of the class group, and, if necessary, reassessing the provisions concerning special conditions for class participation, e.g., space and time requirements, technical and other requirements, including conditions for participation in classes outside the walls of the university, classes organized in blocks, organized online, etc.	No
b03	Consulting the curriculum and the organization of classes	Consulting the schedule getting acquainted with the class schedule, possibly in the presence of the year tutor, in order to optimize participation in classes, including those supplementary to the core subjects listed in the pursued study programme	No
c01	Preparation for verification of learning outcomes	Determining the stages of task implementation contributing to the verification of learning	No

		outcomes devising a task implementation strategy embracing the division of content, the range of activities, implementation time and/or the method(s) of obtaining the necessary materials and tools, etc.	
c02		Studying the literature used in and the materials produced in class exploring the studied content, inquiring, considering, assimilating, interpreting it, or organizing knowledge obtained from the literature, documentation, instructions, scenarios, etc., used in class as well as from the notes or other materials/artifacts made in class	Yes
d01	learning outcomes	Analysis of the corrective feedback provided by the academic teacher on the results of the verification of learning outcomes reading through the academic teacher's comments, assessments and opinions on the implementation of the task aimed at checking the level of the achieved learning outcomes	No
d02	Consulting the results of the verification of learning outcomes	Development of a corrective action plan as well as supplementary/corrective tasks reviewing and selecting tasks and activities enabling the elimination of errors indicated by the academic teacher, their verification or correction resulting in completing the task with at least the minimum passing grade	No

Information on the details of the module implementation in a given academic year can be found in the syllabus available in the USOS system: https://usosweb.us.edu.pl.