

1.	<b>Field of study</b>	<b>Mathematics</b>
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

<b>7. General information about the module</b>	
<b>Module name</b>	<b>Monograph Course in English</b>
Module code	W4-MT-S2-23-WMonE
Number of the ECTS credits	6
Language of instruction	English
Purpose and description of the content of education	<p>Opis zawartości modułu „Wykład monograficzny w języku angielskim”:</p> <ol style="list-style-type: none"> <li>1. Rola i miejsce wykładanego działu matematyki oraz zarys jego rozwoju na tle historycznym.</li> <li>2. Podstawowe pojęcia i definicje oraz najważniejsze związki między nimi.</li> <li>3. Główne twierdzenia omawianej teorii matematycznej i przykłady ich zastosowań oraz związków między nimi.</li> <li>4. Wskazanie związków wykładanej teorii z innymi działami matematyki.</li> <li>5. Wskazanie nierozwiązanych problemów i perspektyw dalszego rozwoju teorii.</li> </ol>
List of modules that must be completed before starting this module (if necessary)	not applicable

<b>8. Learning outcomes of the module</b>			
Code	Description	Learning outcomes of the programme	Level of competenc (scale 1-5)
WMonE_1	Posiada pogłębioną wiedzę na temat metod i technik omawianych na danym wykładzie monograficznym	K_W03	5
WMonE_2	Zna w ramach przedstawianych na wykładzie treści większość definicji i twierdzeń	K_W03	5
WMonE_3	Potrafi w ramach wykładanej dziedziny wskazać związki z innymi dziedzinami, a także rozumie zagadnienia znajdujące się na etapie badań	K_U04	5
WMonE_4	Potrafi zastosować zdobytą wiedzę w innych działach matematyki czystej i stosowanej	K_U04 K_U05	5 5
WMonE_5	Potrafi stawiać i analizować problemy matematyczne w oparciu o wyłożoną teorię oraz jest w stanie nawiązać kontakt ze specjalistami z innych dziedzin matematyki	K_U04 K_U06	4 5
WMonE_6	Potrafi w przedstawionej w ramach wykładu wiedzy precyzyjnie formułować pytania dla pogłębienia własnej wiedzy, a także analogie z twierdzeniami i pojęciami wyłożonymi w ramach innych wykładów	K_K02 K_K05	4 4
WMonE_7	Potrafi samodzielnie studiować literaturę naukową w ramach wyłożonego przedmiotu	K_K01	4

WMonE_8	Potrafi na poziomie średniozaawansowanym posługiwać się literaturą w języku angielskim oraz napisać krótkie opracowanie w tym języku na temat omawiany na wykładzie	K_U08	4
WMonE_9	Porozumiewa się w języku obcym posługując się komunikacyjnymi kompetencjami językowymi w stopniu zaawansowanym oraz pogłębioną umiejętność przygotowania różnych prac pisemnych (w tym badawczych) oraz wystąpień ustnych dotyczących zagadnień danego wykładu	K_U08 K_U09	4 3

9. Methods of conducting classes		
Code	Category	Name (description)
a02	Lecture methods / expository methods	Monographic lecture <i>an exhaustive discussion of one issue, usually related to the research interests of the person teaching the course or a thorough presentation of one selected issue</i>
b08	Problem-solving methods	Activating method – peer learning <i>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</i>
e01	Practical methods	Laboratory exercise / experiment <i>[also conducted as fieldwork] a method of practical application of knowledge; implemented in three stages: the recognition of a problem induced by the task content, the formulation of the problem and the attempt to solve it accompanied by the assessment of the effects; the goal is to acquire skills, abilities and habits, and to consolidate the acquired knowledge so that it becomes operational; the laboratory method assumes greater independence of learners than carrying out an experiment</i>

10. Forms of teaching					
Code	Name	Number of hours	Assessment of the learning outcomes of the module	Learning outcomes of the module	Methods of conducting classes
WMonE_fs_1	lecture	30	exam	WMonE_1, WMonE_2, WMonE_3, WMonE_4, WMonE_5, WMonE_6, WMonE_7, WMonE_8, WMonE_9	a02
WMonE_fs_2	discussion classes	30	course work	WMonE_1, WMonE_2, WMonE_3, WMonE_4, WMonE_5, WMonE_6, WMonE_7, WMonE_8, WMonE_9	b08, e01

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 <i>reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class</i>	Yes
a04	Preparation for classes	Consulting materials complementary to those indicated in the syllabus <i>agreeing on materials complementary to those indicated in the syllabus, supporting the implementation of tasks resulting from or necessary for class participation</i>	Yes
a05	Preparation for classes	Production/preparation of tools, materials or documentation necessary for class participation <i>developing, preparing and assessing the usefulness of tools and materials (e.g. aids, scenarios,</i>	Yes

		<i>research tools, equipment, etc.) to be employed in class or as an aid when preparing for classes</i>	
b01	Consulting the curriculum and the organization of classes	Getting acquainted with the syllabus content <i>reading through the syllabus and getting acquainted with its content</i>	No
b02	Consulting the curriculum and the organization of classes	Verification / adjustment / discussion of syllabus provisions <i>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.</i>	No
b03	Consulting the curriculum and the organization of classes	Consulting the schedule <i>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</i>	No
c01	Preparation for verification of learning outcomes	Determining the stages of task implementation contributing to the verification of learning outcomes <i>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.</i>	No
c02	Preparation for verification of learning outcomes	Studying the literature used in and the materials produced in class <i>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</i>	Yes
d01	Consulting the results of the verification of learning outcomes	Analysis of the corrective feedback provided by the academic teacher on the results of the verification of learning outcomes <i>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</i>	Yes
d02	Consulting the results of the verification of learning outcomes	Development of a corrective action plan as well as supplementary/corrective tasks <i>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</i>	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>.