University of Gdańsk

Subject card

Subject name and code	Mathematics II, PG_00080837		
Field of study	Chemical Business		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2024/2025
Education level	undergraduate studies	Subject group	Obligatory subject group in the field of study
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	3.0
Learning profile	academic	Assessment form	
Conducting unit	Faculty of Mathematics, Physics and Informatics -> Rektor		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Nikodem Mrożek	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	0.0	0.0	0.0	0.0	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

Introduction of students to basic mathematical tools.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[BCHINŻ_W02] Enumerates basic laws and theories in chemistry, physics and mathematics necessary to formulate and solve simple engineering tasks.	Understands and applies the concept of a numerical series, uses the tools of differential and integral calculus and applies them to solve problems; operates with the concepts of linear space and Hilbert space, and is able to use basic tools of probability calculus.	[SW4] test/exam - oral or written
[BCHINŻ_W03] Describes the techniques of higher mathematics and IT tools necessary to describe and model chemical phenomena and technological processes.	Understands and applies the concept of a numerical series, uses the tools of differential and integral calculus and applies them to solve problems; operates with the concepts of linear space and Hilbert space, and is able to use basic tools of probability calculus.	[SW4] test/exam - oral or written

<table>
<tr><td>Subject contents</td><td>The concept and selected properties of linear spaces.

Numerical series, series convergence.

Elements of differential and integral calculus of functions of several variables.

Examples of differential equations.

Selected elements of statistics and probability theory.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Completion of the course Mathematics I</td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Written exam</td><td>50.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>Brak</td></tr><tr><td>Supplementary literature</td><td>Brak</td></tr><tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>Brak</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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