

**Subject card**

<b>Subject name and code</b>	Mathematics II, PG_00080838						
<b>Field of study</b>	Chemical Business						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>			2024/2025		
<b>Education level</b>	undergraduate studies	<b>Subject group</b>			Obligatory subject group in the field of study		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	1	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	2	<b>ECTS credits</b>			3.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>					
<b>Conducting unit</b>	Faculty of Mathematics, Physics and Informatics -> Rektor						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Nikodem Mrożek				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	30.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	30		5.0		40.0	75
<b>Subject objectives</b>	Introduction of students to mathematical tools.						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>			<b>Method of verification</b>	
	[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 [SW1] oral statement/ conversation/discussion	
	[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 [SW1] oral statement/ conversation/discussion	

Subject contents	<p>The concept and selected properties of linear spaces.</p> <p>Numerical series, series convergence.</p> <p>Elements of differential and integral calculus of functions of several variables.</p> <p>Examples of differential equations.</p> <p>Selected elements of statistics and probability theory.</p>		
Prerequisites and co-requisites	Completion of the course Mathematics I		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Activity	0.0%	10.0%
	Test	50.0%	90.0%
Recommended reading	Basic literature	Brak	
	Supplementary literature	Brak	
	eResources addresses	Adresy na platformie eNauczenie:	
Example issues/ example questions/ tasks being completed	Brak		
Work placement	Not applicable		

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