

Subject card

Subject name and code	Mathematics II, PG_00080838						
Field of study	Chemical Business						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's 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		credit		
Conducting unit	Faculty of Mathematics, Physics and Informatics -> Rector						
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	0.0	30.0	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 mathematical tools.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[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	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.		
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		
Example issues/ example questions/ tasks being completed	Brak		
Work placement	Not applicable		

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