

Subject card

Subject name and code	Linear algebra - exercises, PG_00155326						
Field of study	Physics						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2024/2025		
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 not applicable		
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 hab. Adam Rutkowski				
	Teachers		dr hab. Adam Rutkowski dr Denis Dobkowski-Ryłko				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	15.0	0.0	0.0	45
	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	45		0.0		30.0	75
Subject objectives	not applicable						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[FIZL3_U08] can use mathematical apparatus and numerical methods to describe and model physical phenomena and processes		not applicable		[SU3] text preparation/written work		
	[FIZL3_K01] knows the limitations of his own knowledge and understands the need for further education		not applicable		[SK3] text preparation/written work		
	[FIZL3_W04] knows the basic techniques of higher mathematics, including differential and integral calculus of functions of one and many variables, and the basics of algebra to the extent necessary to describe physical phenomena and solve physical problems		not applicable		[SW3] text preparation/written work		
	[FIZL3_K02] can precisely formulate problems to deepen understanding of a given topic		not applicable		[SK3] text preparation/written work		
	[FIZL3_U16] can independently plan and implement his own learning		not applicable		[SU3] text preparation/written work		
Subject contents	not applicable						
Prerequisites and co-requisites	not applicable						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	not applicable	51.0%	100.0%
Recommended reading	Basic literature	not applicable	
	Supplementary literature	not applicable	
	eResources addresses		
Example issues/ example questions/ tasks being completed	not applicable		
Work placement	Not applicable		

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