

Subject card

Subject name and code	Physics elementary issues, PG_00055148							
Field of study	Mechanical Engineering							
Date of commencement of studies	October 2021		Academic year of realisation of subject			2021/2022		
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study		
Mode of study	Part-time studies		Mode of delivery			at the university		
Year of study	1		Language of instruction			Polish		
Semester of study	1		ECTS credits			3.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Institute of Ocean Eng Technology	Ship Technology -> Faculty of Mechanical Engineering and Ship						
Name and surname	Subject supervisor		dr inż. Klaudia Wrzask					
of lecturer (lecturers)	Teachers		dr inż. Klaudia Wrzask					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ect Seminar		SUM
	Number of study hours	0.0	15.0	0.0	0.0	0.0		15
	E-learning hours included: 0.0							
	Adresy na platformie eNauczanie:							
Learning activity and number of study hours	Learning activity Participation in classes include plan			Participation in consultation hours		Self-study		SUM
	Number of study hours			5.0		55.0		75
Subject objectives	Reviewing and consolidating knowledge of the basics of physics.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K6_W02] possesses an organized knowledge on physics, including classic mechanics, acoustics, optics, electricity and magnetism, shows knowledge of the elements of quantum physics		Student describes and interprets basic physical phenomena. The student conducts correct calculations and transforms on units.			[SW1] Assessment of factual knowledge		
	[K6_U01] is able to acquire information from specialized literary sources, databases and other resources, essential for solving engineering tasks; is able to compile the obtained information pieces and to interpret them, additionally is able to form conclusions and present justified opinion		The knowledge obtained allows independent analysis of selected issues related to physics in the surrounding reality.			[SU4] Assessment of ability to use methods and tools		
Subject contents	EXERCISES: Motion: uniformly linear motion, resultant motion, uniformly variable motion, circular motion, two-dimension projections. Dynamics law: laws of dynamics, linear momentum, conservation of linear momentum, friction Work and energy: work, power, kinetic energy, potential energy, conservation of energy.							
Prerequisites and co-requisites	High school level physics knowledge.							
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	Midterm colloquium		50.0% 100.0%					
Recommended reading	Basic literature		https://openstax.org/details/books/fizyka-dla-szk%C3%B3%C5%82-wy%C5%BCszych-tom-1					
	Supplementary literature		J. Massalski, M. Massalska, Fizyka dla inżynierów, tom 1, WNT Warszawa 1979					
	eResources addresses		Uzupełniające					

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example questions/ tasks being completed	Find a scalar and a vector product. A car travelling from city A to a city B 100 km away travels the first 40 km of the road at a speed of 80 km/h and the rest of the road at a speed of 30 km/h. Calculate the average car speed over the entire route. Graph the speed and distance versus time.
Work placement	Not applicable

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