

Subject card

	D	DO 000	10000						
Subject name and code	Physics elementary issues, PG_00040029								
Field of study	Mechanical Engineering, Mechanical Engineering								
Date of commencement of studies			Academic year of realisation of subject			2020/2021			
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			Assessment form			assessment			
Conducting unit	Department of Physic	Phenomena -> Faculty of Applied Physics and Mathematics							
Name and surname	Subject supervisor		dr inż. Ireneusz Linert						
of lecturer (lecturers)	Teachers		dr inż. Ireneusz Linert						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	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					Self-study		SUM	
	Number of study 15 hours		5.0		55.0		75		
Subject objectives	Reviewing and consolidating knowledge of the basics of physics.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[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			
	[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			
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		Fizyka dla szkół wyższych t.1 (Mechanika; Fale i akustyka)						
	Supplementary literature			J. Massalski, M. Massalska, Fizyka dla inżynierów, tom 1, WNT Warszawa 1979					
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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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