

## 。 GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Subject name and code	Mechanics for engineers, PG_00061898								
Field of study	Materials Engineering								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
						Subject group related to scientific research 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			5.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Institute Of Nanotechnology And Materials Engineering -> Faculty Of Applied Physics And Mathematics -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor		dr hab. inż. Jakub Karczewski						
of lecturer (lecturers)	Teachers		dr hab. inż. Ja	akub Karczews	ski				
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study hours	30.0	30.0	0.0	0.0		0.0	60	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan	n didactic ed in study	Participation in consultation hours		Self-study SUI		SUM	
	Number of study hours	60		5.0		60.0		125	
Subject objectives	Getting to know the basic laws of classical physics. Acquiring the ability to analyze physical phenomena and technical issues based on the laws of physics.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U01] Can properly use selected analytical, simulation and experimental methods, as well as devices for measuring the fundamental properties of materials and technological processes.		The student is able to solve tasks related to the basics of classical physics. Knows basic research methods and ways of defining and determining basic physical quantities			[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools			
	[K6_U05] can learn independently		The student is able to use both traditional and modern methods of acquiring knowledge in the field of classical physics.			[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools			
	[K6_W02] has knowledge of physics and chemistry, useful for formulating and solving simple problems within the scope of materials science		The student has basic knowledge of classical mechanics, basic optics and thermodynamics			[SW1] Assessment of factual knowledge			
	[K6_K01] Understands the need to improve professional and personal competencies; is conscious of own limitations and knows when to turn to experts, properly establishes priorities helping to accomplish tasks defined by oneself or others.		The student has knowledge of the basics of classical physics. Understands the need to understand them in the context of solving professional problems. Is able to independently deepen knowledge in this area.			[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice			

Subject contents	Algebra wektorów						
Subject contents	AUYEDIA WERLUIUW						
	Kinematyka						
	Dynamika						
	Zasady zachowania						
	Bryła sztywna						
	Droania						
	Digama						
	Fale						
	languda dan af tha haning af ning at hink ank art taunt						
Prerequisites	knowledge of the basics of physics at high school level						
		1					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	oral exam	50.0%	30.0%				
	exam	40.0%	20.0%				
	colloquium on accounts	50.0%	50.0%				
Recommended reading	Basic literature	M.Herman, A.Kalestyński, L.Widomski, Podstawy Fizyki dla kandydatów na wyższe uczelnie i studentów, WN PWN, Warszawa					
		dla Inżynierów W/NT Warszawa					
	J. Wassaish, W. Wassaisha i izyha dia ilizyilietow, WNY Waisza						
	Supplementary literature	D.Halliday, R.Resnick, J.Walker, Podstawy Fizyki, PWN, Warszawa					
	eResources addresses	Adresy na platformie eNauczanie:					
		mechanika dla inżynierów - Moodle ID: 38486					
	https://enauczanie.pg.edu.pl/moodle/course/view.php?id=38486						
Example issues/	-						
example questions/							
tasks being completed							
Work placement	Not applicable						

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