GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Physical laboratory II, PG_00028407		
Field of study	Nanotechnology		
Date of commencement of studies	October 2021	Academic year of realisation of subject	2022/2023
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	2	Language of instruction	Polish
Semester of study	3	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Zakład ceramiki -> Instytut Nanotechnologii i Inżynierii Materiałowej -> Faculty of Applied Physics and Mathematics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Tadeusz Miruszewski	
	Teachers	dr inż. Marta Prześniak-Welenc dr inż. Tadeusz Miruszewski	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	30.0	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	2.0	18.0	50

Subject objectives

Introduction with the basic laws of classical physics. Verification of the theory in eksperymencie.Nabycie ability to analyze the results. The use of analysis of experimental data in practice.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K6_U04		[SU1] Assessment of task fulfilment
K6_W03		[SW1] Assessment of factual knowledge
K6_U01		[SU1] Assessment of task fulfilment

Subject contents

Topics include: kinematics of linear motion, Newton's laws of motion, oscillatory motion, waves, mechanical, and rigid body dynamics traversing phase transitions bodies, elements of thermodynamics.

Prerequisites and co-requisites

The course is dedicated to students who have completed a course of Physics II (sem. II)

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
	50.0%	100.0%

Recommended reading

Basic literature	D. Halliday, R. Resnick, J. Walker, Fundamentals of Physics, Oxford University Press,M.Herman, A. Kalestyński, L.Widomski, Fundamentals of Physics for candidates for universities and students, WN PWN Warsawhttp://ftims.pg.edu.pl/laboratorium-z-fizyki-i-pracownia
Supplementary literature	absence

	eResources addresses	Adresy na platformie eNauczanie: Laboratorium z fizyki II _ 2022/2023_ semestr zimowy_ Nanotechnologia_ grupa T.Miruszewski - Moodle ID: 26639 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26639 Laboratorium z fizyki II _ 2022/2023_ semestr zimowy_ Nanotechnologia_ grupa T.Miruszewski - Moodle ID: 26639 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26639
Example issues/ example questions/ tasks being completed	Explain based on the internal structure of solids the difference between the area of plastic deformation and elastic deformation area;Heat definition phaseAs using the method of least squares determined from measurements of time free-fall acceleration due to gravity	
Work placement	Not applicable	