GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Technical Physics, PG_00044373		
Field of study	Engineering Management		
Date of commencement of studies	October 2022	Academic year of realisation of subject	2022/2023
Education level	first-cycle 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
Semester of study	1	ECTS credits	5.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	Department of Atomic, Molecular and Optical Physics -> Faculty of Applied Physics and Mathematics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Patrycja Stefańska-Ptaszek	
	Teachers	dr Maciej Kuna dr inż. Patrycja Stefańska-Ptaszek mgr inż. Natalia Tańska	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	0.0	30.0	0.0	0.0	60

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	60	6.0	59.0	125

Subject objectives

Basic knowledge of physics. Ability to use basic physical laws. Ability to interpret basic physical phenomena.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U01] interprets and analyses the phenomena and processes taking place in the economy and organisation using basic theoretical knowledge of economics, management and science	Basic knowledge of physics. Ability to use basic physical laws. Ability to interpret basic physical phenomena.	[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools
[K6_W11] has the basic knowledge of mathematics, physics and chemistry necessary to solve technical problems	Basic knowledge of physics. Ability to use basic physical laws. Ability to interpret basic physical phenomena.	[SW1] Assessment of factual knowledge

Subject contents

Mechanics Optics Heat Waves Statistical physicsAtomic physicsNuclear Physics Quantum Physics

Prerequisites and co-requisites

Assessment methods and criteria

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

Recommended reading	Basic literature	D. Halliday, R. Resnick and J. Walker "Podtsawy fizyki" PWN tom 1-5"Feynmana Wykłady z Fizyki" PWN WarszawaJ. Orear, *Fizyka*, WNT, Tom 1 i 2
	Supplementary literature	Paul G. Hewitt "Fizyka wokół nas" PWN Warszawa I. W. Sawieliew, *Wykłady z Fizyki*, PWN, Tom 1-3
	eResources addresses	Podstawowe https://enauczanie.pg.edu.pl/moodle/enrol/index.php?id=26135 - ecourse Adresy na platformie eNauczanie: Fizyka Techniczna ZiE 2022/23 - Moodle ID: 26135 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26135
Example issues/ example questions/ tasks being completed	The laws of classical mechanics	
Work placement	Not applicable	