GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Basis for new materials technologies, PG_00039713		
Field of study	Materials Engineering, Materials Engineering, Materials Engineering		
Date of commencement of studies	February 2023	Academic year of realisation of subject	2023/2024
Education level	second-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	2	Language of instruction	Polish
Semester of study	3	ECTS credits	1.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Solid State Physics -> Faculty of Applied Physics and Mathematics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Aleksandra Mielewczyk-Gryń	
	Teachers	dr hab. inż. Aleksandra Mielewczyk-Gryń dr hab. Agata Lisińska-Czekaj dr hab. inż. Łukasz Piszczyk	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	0.0	0.0	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	0.0	0.0	30

Subject objectives

The aim of the lecture is to familiarize students with new trends in materials engineering.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K7_K01	Student understands the necessity of constant education	[SK4] Assessment of communication skills, including language correctness
K7_U01	Students knows how to utilize multiple sources of information	[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information
K7_W07	Student has extensive knowledge on the trends in materials engineering	[SW1] Assessment of factual knowledge

Subject contents

- materials in army;

- intelligent materials

- transparent ceramics

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
exam II	50.0%	33.4%
exam III	50.0%	33.3%
exam I	50.0%	33.3%

Recommended reading	Basic literature	Renewable and Sustainable Energy Reviews, Volume 60, July 2016, Pages 394-407 Biochemical and Biophysical Research Communications, Volume 468, Issue 3, 18 December 2015, Pages 442-453
	Supplementary literature	none
	eResources addresses	Adresy na platformie eNauczanie: Podstawy nowych technologii materiałowych 2023/2024 - Moodle ID: 35998 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=35998
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	