

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	> Faculty of Applied Physics and Mathematics							
Name and surname	Subject supervisor	dr hab. inż. Aleksandra Mielewczyk-Gryń							
of lecturer (lecturers)	Teachers		dr hab. inż. Aleksandra Mielewczyk-Gryń						
		dr hab. Agata Lisińska-Czekaj							
			dr hab. inż. Łukasz Piszczyk						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	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 classes including plan					Self-study SUM		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					[SK4] Assessment of communication skills, including language correctness			
	K7_U01					[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information			
	K7_W07		Student has extensive knowledge			[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					33.4%			
	exam III		50.0%		33.3%				
	exam I		50.0%			33.3%			

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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		
tasks being completed		
Work placement	Not applicable	

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