



Subject card

Subject name and code	English for physicists, PG_00049442							
Field of study	Technical Physics							
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	1	Language of instruction			English			
Semester of study	2	ECTS credits			2.0			
Learning profile	general academic profile	Assessment form			assessment			
Conducting unit	Zakład Fizyki Organicznych i Perowskitowych Struktur Fotowoltaicznych -> Instytut Fizyki i Informatyki Stosowanej -> Faculty of Applied Physics and Mathematics							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Mateusz Zawadzki					
	Teachers		dr hab. Mateusz Zawadzki					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM	
	Number of study hours	0.0	30.0	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		2.0		18.0	50	
Subject objectives	Course aiming to get students acquainted with English nomenclature from chosen branches of physics, mathematics, and informatics. Students are taught how to write scientific texts, as well as, how to prepare and give oral presentations. Another goal of this subject is to present common phrases used in scientific publications and talks.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K7_U08] Has enhanced ability to write, including research publications, in Polish and English.		Knows how to write scientific papers and diploma theses. Knows common phrases used in these kinds of publications.			[SU3] Assessment of ability to use knowledge gained from the subject		
	[K7_U07] Has enhanced skill of preparing speeches in Polish and English, including presentation of own research results.		Prepares and gives oral presentations related to science. Knows how to present results of research.			[SU3] Assessment of ability to use knowledge gained from the subject		
[K7_W09] Has extended knowledge of English terminology within the field of physics, mathematics and IT.		Knows English nomenclature from chosen fields of physics, mathematics, chemistry and information science.			[SW1] Assessment of factual knowledge			
Subject contents	English of Mathematics - fundamental mathematical expressions used in physics and related sciences (such as vector algebra, trigonometric functions, derivatives, integrals); English in chosen branches of Physics - physical quantities, units, error analysis, kinematics, dynamics, electric current; English in IT, chosen aspects; Expressions used in scientific publications and oral presentations.							
Prerequisites and co-requisites	English level of B2+							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	scientific talk	50.0%	40.0%
	practice test	50.0%	60.0%
Recommended reading	Basic literature	1. English for Physicists, J. Szostak, tutorial available at the MS Team channel 2. J. angielski fizyki, techniki i informatyki, J. Szostak, script book for students of Technical Physics 3. University Physics, OpenStax,	
	Supplementary literature	internet resources, IT books published in English and selected by students	
	eResources addresses	Adresy na platformie eNauczanie: Język angielski w fizyce - Moodle ID: 34796 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=34796	
Example issues/ example questions/ tasks being completed	physical quantities, vector addition and multiplication, units, metric prefixes, propagation of errors translation from Polish/English to English/Polish, reading, speaking, reading equations and formulae, grammar		
Work placement	Not applicable		