GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	English for physicists, PG_00049442		
Field of study	Technical Physics		
Date of commencement of studies	February 2027	Academic year of realisation of subject	2027/2028
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	Division of Physics of Organic and Perovskite Photovoltaic Structures -> Institute of Physics and Applied Computer Science -> Faculty of Applied Physics and Mathematics -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Jan Franz	
	Teachers		

Lesson types

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

The aim of the course is to familiarize students with English scientific terminology from selected areas of physics, mathematics, and computer science, and to develop their ability to use it correctly in an academic context. The course covers the principles of writing scientific texts, preparing and delivering oral presentations, and using typical expressions employed in written assignments and scientific presentations.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_W81] has knowledge of complex grammatical structures and diverse lexical resources needed to communicate in foreign language in terms of general and specialist language related to field of study	knows English scientific and technical terminology related to the field of study and understands basic language structures used in scientific texts and presentations.	[SW1] Assessment of factual knowledge
[K7_U81] is able to communicate with ease in foreign language at B2+ level of the Common European Framework of Reference for Languages (CEFR) in everyday life, in academic and professional environments	is able to prepare and deliver a scientific presentation in English using appropriate terminology and forms of academic communication.	[SU5] Assessment of ability to present the results of task
[K7_U07] demonstrates advanced skills in disseminating knowledge and communicating research results, both individually and collaboratively, in the form of oral presentations, publications or written reports in Polish and English.	is able to communicate scientific issues and the results of individual or team research in Polish and English in the form of an oral presentation, presentation, publication, or written report, using appropriate terminology and principles of academic communication.	[SU3] Assessment of ability to use knowledge gained from the subject
[K7_K82] is equipped to participate actively in lectures, seminars and laboratory classes conducted in foreign language	is prepared to actively participate in classes conducted in English, develop language competences in the field of scientific terminology, and work individually and in teams in an academic environment.	[SK4] Assessment of communication skills, including language correctness

<table>
<tr><td>Subject contents</td><td>Course content – exercises
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.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>English level of B2+</td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>scientific talk</td><td>50.0%</td><td>40.0%</td></tr>
<tr><td>practice test</td><td>50.0%</td><td>60.0%</td></tr>
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</td></tr>
<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>1. M. McCarthy, F. O'Dell, Academic Vocabulary in Use Edition, 2nd edition, Cambridge University Press, Cambridge, 2016

2. B. Heard, The Scientist's Guide to Writing, Princeton University Press, Princeton, NJ, 2016

3. J. Schimel, Writing Science, Oxford University Press, Oxford, 2011

4. H. Glasman-Deal, Science Research Writing: For Native And Non-native Speakers Of English, World Scientific, London, 2020</td></tr>
<tr><td>Supplementary literature</td><td>internet resources, IT books published in English and selected by students</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td>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</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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