



Subject card

Subject name and code	English language in mathematics II , PG_00049179						
Field of study	Mathematics						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
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			English		
Semester of study	4	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Differential Equations and Mathematical Applications -> Faculty of Applied Physics and Mathematics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Magdalena Chmara				
	Teachers		dr inż. Magdalena Chmara				
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						
	eNauczanie source addresses: Moodle ID: 4811 Język angielski w matematyce II 2026 https://enauczanie.pg.edu.pl/2025/course/view.php?id=4811						
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		5.0	15.0	50	
Subject objectives	Development and consolidation of English language skills in a mathematical and professional environment in the areas of reading, writing, translation, oral communication and public speaking.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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	Student improves the ability to organize work, communicate in English while working in a team and clearly present the content in English during public speeches.	[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment
	[K7_K81] is able to cooperate in international team at her/his own university, during work placement and during study abroad	Student prepares a presentation on a selected topic (within a given area of mathematical sciences or applications of mathematics in the professional work undertaken) in a team of several people. Student can obtain the necessary information from English-language literature.	[SK1] Assessment of group work skills [SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work
[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	Student prepares written work in English. Student solves maths tasks at the level of undergraduate and master-degree studies (the content of the task, the solution and presentation of reasoning are in English). Student translates an English-language scientific article or its summary into Polish. Student learns business English vocabulary and analyzes case studies with its use.	[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation	
Subject contents	<p>Course content – exercises</p> <ol style="list-style-type: none"> 1. Introducing of English vocabulary from areas of mathematics contained in the program of university studies. Solving exemplary tasks in mathematics formulated in English. 2. Given bibliographical data or topic, searching for scientific papers in GUT library-bases and translating them or their abstracts into Polish. 3. Writing CV in English. Preparing abstract of MSc thesis in English. 4. Preparing a presentation on a chosen mathematical problem or areas of professional activity. Improving public speaking skills and engaging the audience. 5. Introducing elements of business English vocabulary. Exercises. Analysing selected case studies on possible situations in professional activities - discussion/debate. 		
Prerequisites and co-requisites	Knowledge of obligatory courses for Mathematics; knowledge of English at the intermediate level.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Presentations/debate/portfolio	50.0%	80.0%
	Activity	0.0%	20.0%
Recommended reading	Basic literature	<p>Mathematical literature (including journal articles) in English.</p> <p>Cotton, D., Falvey, D., Kent, S., Market leader : intermediate business English : practice file, Harlow : Longman, 2000.</p> <p>Dąbrowska, I., Academic writing practice for engineers : advanced with key, Kraków : Wydawnictwa AGH, 2018. Kucharska-Raczunas, A., Maciejewska, J., English for mathematics for students of technical studies, Gdańsk : Wydawnictwo Politechniki Gdańskiej, 2015.</p> <p>Pablo Pedregal, Functional Analysis, Sobolev Spaces, and Calculus of Variations, Springer 2024</p>	

	Supplementary literature	<p>Kopestyńska, Z., Woytowicz-Neymann, M., New business English, Warszawa : Polskie Wydawnictwo Ekonomiczne, 1996.</p> <p>Frodesen, J., Wald, M., Exploring options in academic writing : effective vocabulary and grammar use, Ann Arbor : University of Michigan Press, cop. 2016.</p> <p>Nolan, S., Reed, B., Business English teacher's resource book : [with photocopiable worksheets], Harlow: Longman, 1992</p>
Example issues/ example questions/ tasks being completed	eResources addresses	Explain in English the following terms: Banach Space, Frenet Formulas,
Practical activities within the subject	Not applicable	

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