



## Subject card

|   |  |  |  |                                     |   |            |     |
|---|--|--|--|-------------------------------------|---|------------|-----|
| Subject name and code                       | English language in mathematics I , PG_00049171  |  |  |                                     |   |            |     |
| Field of study                              | Mathematics  |  |  |                                     |   |            |     |
| Date of commencement of studies             | October 2023   |  | Academic year of realisation of subject  |                                     | 2025/2026   |            |     |
| Education level                             | first-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                               | 3  |  | Language of instruction  |                                     | English   |            |     |
| Semester of study                           | 6  |  | ECTS credits   |                                     | 2.0   |            |     |
| Learning profile                            | general academic profile   |  | Assessment form  |                                     | assessment  |            |     |
| Conducting unit                             | Zakład Analizy Nieliniowej -> Instytut Matematyki Stosowanej -> Faculty of Applied Physics and Mathematics   |  |  |                                     |   |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor   |  | dr inż. Karol Wroński  |                                     |   |            |     |
|   | Teachers   |  |  |                                     |   |            |     |
| 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   |  |  |                                     |   |            |     |
|   | Adresy na platformie eNauczanie:   |  |  |                                     |   |            |     |
| 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                          | Preparing students to communicate fluently in mathematical specialist English. Expanding the mathematical vocabulary and acquainting with the phrases characteristic of complex mathematical texts. The ability to present your mathematical knowledge in English, both in writing and speaking. |  |  |                                     |   |            |     |
| Learning outcomes                           | Course outcome   |  | Subject outcome  |                                     | Method of verification  |            |     |
|   | [K6_W81] has knowledge of grammatical structures and lexical resources needed to communicate in foreign language in terms of general and specialist language related to field of study   |  | Correct speaking and writing in a specialist language, with particular emphasis on the correct formulation of logical sentences. Knowledge of phrases typical of professional mathematical literature. |                                     | [SW1] Assessment of factual knowledge<br>[SW3] Assessment of knowledge contained in written work and projects     |            |     |
|   | [K6_U81] is able to communicate appropriately in everyday life, in academic and professional environments  |  | Fluent speaking and writing and the ability to discuss mathematical topics in English.   |                                     | [SU1] Assessment of task fulfilment   |            |     |
|   | [K6_K81] is able to cooperate in international student team  |  | The ability to speak fluently in English on specialist topics. Knowledge of specialized vocabulary from many areas of mathematics.   |                                     | [SK4] Assessment of communication skills, including language correctness<br>[SK1] Assessment of group work skills |            |     |
|   | K6_U01   |  | Speaking and writing in English on topics related to higher mathematics. Presenting complex reasoning in English.  |                                     | [SU1] Assessment of task fulfilment<br>[SU5] Assessment of ability to present the results of task                 |            |     |
| Subject contents                            | W trakcie zajęć w całym semestrze studenci przygotowują prezentacje na zadane tematy dotyczące kolejnych działów matematyki wyższej. Te prezentacje są inspiracją do dyskusji i wzbogacania słownictwa i zwrotów charakterystycznych dla języka specjalistycznego.                               |  |  |                                     |   |            |     |
| Prerequisites and co-requisites             | Completion of the English Language course in the previous semesters  |  |  |                                     |   |            |     |
| Assessment methods and criteria             | Subject passing criteria   |  | Passing threshold  |                                     | Percentage of the final grade   |            |     |
|   | tests  |  | 50.0%  |                                     | 50.0%   |            |     |
|   | presentations  |  | 50.0%  |                                     | 50.0%   |            |     |

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| Recommended reading  | Basic literature  | Polsko-angielski słownik matematyczny, H. Jezierska, Wydawnictwo Naukowo-Techniczne WNT, 2004. Angielsko-polski słownik matematyczny, H. Jezierska, Wydawnictwo Naukowo-Techniczne WNT, 2007. Słownik polsko-angielski angielsko-polski pojęć i kontekstów matematycznych, W. Regel, Biła Wydawnictwo, 2016 |
|  | Supplementary literature  | Writing Mathematical Papers in English: A Practical Guide, J. Trzeciak, 1995  |
|  | eResources addresses  |   |
| Example issues/<br>example questions/<br>tasks being completed | Prepare a presentation in English on a selected topic in higher mathematics, e.g. presenting in English any numerical algorithm for solving a differential equation. Write a short text in English on a given topic, e.g. carrying out a proof in English using the mathematical induction. Discussion in English on mathematical topics. |   |
| Work placement   | Not applicable  |   |