## COURSE DESCRIPTION CARD - SYLLABUS

## Course name

English in technology

## Course

Field of study
Mathematics in technology
Area of study (specialization)

Level of study
Second-cycle studies
Form of study
full-time

## Year/Semester

1/1
Profile of study general academic
Course offered in
English
Requirements
elective

## Number of hours

30
Number of credit points
2
Lecturers

Responsible for the course/lecturer:
Responsible for the course/lecturer:
Mgr Alicja Wegwerth-Kurpiewska

## Prerequisites

1. Language competence compatible with level B2 (CEFR) (PRK4); knowledge of selected field specific (mathematics in technology) vocabulary (PRK6)
2. Ability to use general and field specific vocabulary, and grammatical structures required on the first level of studies; [K1_U01 (P6S_UK), K1_U08(P6S_UK)]

Ability to use various sources of information [K1_U05 (P6S_UW)]
3. Readiness to follow group work rules and work in a team. [K1_K03(P6S_KR)]

## Course objective

1. To develop the student's ability to use academic and field specific (mathematics in technology) language effectively in speech and writing.
2. To develop the student's ability to analyze critically field specific texts.
3. To encourage buildup of field specific vocabulary.

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## Course-related learning outcomes

Knowledge
As a result of the course, the student ought to acquire field specific vocabulary related to the following issues:

1. Probability theory- events and their types
2. Sets- types, Cartesian product
3. Combinatorics- areas, application in technology

## 4. Abstract algebra

## Skills

As a result of the course, the student is able to:
1 give a talk on a field specific or popular science topic (in English), and discuss general and field specific issues, analyze constraints and feasible solutions [K2_U04(P7S_UK), K2-U05(P7S_UK)]

2 use an appropriate linguistic and grammatical repertoire in speech and in writing [K2_U01(P7S_U0)]
3 formulate a text in English to explain/describe a selected field specific topic.
4 understand and analyze international, field specific literature [K2_U01 (P7S_UW)]
5 participate in a discussion on a field specific/professional topic, using arguments.
6 assess the merit of resource materials.

## Social competences

As a result of the course, the student is able to communicate effectively in a field specific/professional area, and communicate in English in public.

Methods for verifying learning outcomes and assessment criteria
Learning outcomes presented above are verified as follows:

1. Formative assessment: regular assessment of in-class performance, written assignments, speech/presentation
2. Summative assessment: credit

Programme content

## Topics:

Sets, probability theory, combinatorics, abstract algebra, The letter $\pi$,

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## Teaching methods

Vocabulary practice, dialogues, multimedia presentations, debate
Bibliography

## Basic

Łyczko, A., J. 2015. English For Mathematics. Kraków: SPNJO Politechniki Krakowskiej (SPK),

## Additional

British Council, 2014. English For Academics. Cambridge: CUP (EFA)
Collins, T/Maples, M.J. 2008. Gateway to science Vocabulary and concepts. Thomson Heinle (GTS)
Kucharska-Raczunas, A./ Maciejewska, j. 2010. Mathematics for students of technical studies. Gdansk: WPG (Mfsots),

Kurkiewicz-Gacek, A./ Trzaska, A. 2012. English For Mathematics. Kraków: AGH (EfM),
Sang, D. 2014 Physics Course book. Cambridge: CUP (PCB)
Adams, S./Allday, J. 2000. Advanced Physics. Oxford: OUP (AP)
Gójska, G. 2004. Technical English Grammar. Gdańsk: Wydawnictwo Politechniki Gdańskiej (TEG) The Internet

## Breakdown of average student's workload

|  | Hours | ECTS |
| :--- | :--- | :--- |
| Total workload | 50 | 2,0 |
| Classes requiring direct contact with the teacher | 30 | 1,0 |
| Student's own work (preparation for classes, preparation for tests, <br> giving presentation) |  |  |

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[^0]:    ${ }^{1}$ delete or add other activities as appropriate

