STUDY MODULE DESCRIPTION FORM

Name of the module/subject **English Course (mathematical)**		Code
Field of study **Mathematics in Technology**	Profile of study (general academic, practical) **general academic**	Year /Semester **1/1**
Elective path/specialty **-**	Subject offered in: **English**	Course (compulsory, elective) **elective**
Cycle of study: **First-cycle studies (Polish Qualifications Framework level six)**	Form of study (full-time, part-time) **full-time**	

No. of hours Lecture: **-** Classes: **60** Laboratory: **-** Project/seminars: **-**	No. of credits **3**
Status of the course in the study program (Basic, major, other) **other**	(university-wide, from another field) **University-wide**
Education areas and fields of science and art **The sciences** **Mathematical sciences**	ECTS distribution (number and %) **3 100%** **3 100%**

Responsible for subject / lecturer:

Mgr Alicja Wegwerth-Kurpiewska
e-mail: alicja.wegwerth-kurpiewska@put.poznan.pl
phone. 616652613
Faculty CLC PUT
ul. Piotrowo 3A, 60-965 Poznań

Prerequisites in terms of knowledge, skills and social competencies [PQF4]:

1	**Knowledge**	The already acquired language competence compatible with level B1 (CEFR)
2	**Skills**	The ability to use vocabulary and grammatical structures required on the high school graduation exam with regard to productive and receptive skills
3	**Social competencies**	The ability to work individually and in a group; the ability to use various sources of information and reference works.

Assumptions and objectives of the course:

1. Advancing students' language competence towards at least level B2 (CEFR).
2. Development of the ability to use academic and field specific language effectively in both receptive and productive language skills.
3. Improving the ability to understand field specific texts (familiarizing students with basic translation techniques).
4. Improving the ability to function effectively on an international market and on a daily basis.

Study outcomes and reference to the educational results for a field of study

Knowledge: As a result of the course, the student

1	ought to acquire field specific vocabulary related to the following issues: describing graphs, mathematical terms and symbols, mathematical operations, matrices, mathematical functions, differential calculus [K_W03 (P6S_WG)]
2	is familiar with appropriate linguistic grammatical structures and uses them effectively in written and oral utterances (in English) [K_W03 (P6S_WG)]

Skills: As a result of the course, the student is able to:

1	express basic mathematical operations and to interpret data presented on graphs/diagrams [K_U13 (P6S_UK)]
2	formulate a text in English where he/she explains/describes a selected field specific topic [K_U13 (P6S_UK)]

Social competencies: As a result of the course, the student is able to

1	retrieve information on his/her own from field specific texts in English [K_K01 (P6S_KK)]
2	communicate effectively in a field specific/professional area and on a daily basis [K_K01 (P6S_KK)]
3	recognize and understand cultural differences in a professional and private conversation, and in a different cultural environment [K_K01 (P6S_KK)]

Assessment methods of study outcomes

Formative assessment: in-class evaluation (tests, MT tests)

Summative assessment: credit

Course description

Topics:

Describing graphs, mathematical terms and symbols, mathematical operations, matrices, mathematical functions, differential calculus

Update: 10.2018

Basic bibliography:

1, Krukiewicz-Gacek, A./ Trzaska, A. 2012. *English For Mathematics.* Kraków: AGH

Additional bibliography:

1.Kucharska-Raczunas, A./ Maciejewska, J. 2010. *Mathematics For Students Of Technical Studies.* Gdańsk: Wydawnictwo Politechniki Gdańskiej

Result of average student's workload

Activity	Time (working hours)
1. Participation in classes	60
2. Preparing for tests	10
3. Preparing of homework	5

Student's workload

Source of workload	Source of workload	Source of workload
Total workload	75	3
Contact hours	60	2
Practical activities	15	1