

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>English Course (technical)</b>		Code
Field of study <b>Mathematics in technology</b>	Profile of study (general academic, practical) <b>general academic</b>	Year /Semester <b>1/2</b>
Elective path/specialty -	Subject offered in: <b>English</b>	Course (compulsory, elective) <b>elective</b>
Cycle of study: <b>First-cycle studies (Polish Qualifications Framework level six)</b>	Form of study (full-time, part-time) <b>full-time</b>	
No. of hours Lecture: - Classes: <b>60</b> Laboratory: - Project/seminars: -		No. of credits <b>3</b>
Status of the course in the study program (Basic, major, other) <b>other</b>		(university-wide, from another field) <b>university-wide</b>
Education areas and fields of science and art <b>Technical sciences Technical sciences</b>		ECTS distribution (number and %) <b>3 100%</b> <b>3 100%</b>
<b>Responsible for subject / lecturer:</b>  Mgr Alicja Wegwerth-Kurpiewska e-mail: alicja.wegwerth-kurpiewska@put.poznan.pl phone : 61 665 2613 Centrum Języków i Komunikacji PP ul. Piotrowo 3A, 60-965 Poznań		
<b>Prerequisites in terms of knowledge, skills and social competencies [PQF 4]:</b>		
<b>1</b>	<b>Knowledge</b>	The already acquired language competence compatible with level B1 (CEFR)
<b>2</b>	<b>Skills</b>	The ability to use vocabulary and grammatical structures required on the high school graduation exam with regard to productive and receptive skills
<b>3</b>	<b>Social competencies</b>	The ability to work individually and in a group; the ability to use various sources of information and reference works.
<b>Assumptions and objectives of the course:</b> 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.		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b> As a result of the course the student::		
1	ought to acquire field specific vocabulary related to electrical machines: transformer, generator, power transmission and distribution, smart grid and also be able to define and explain associated terms, phenomena and processes [K_W03 (P6S_WG)]	
2	knows and understands English grammar and lexical rules and applies them successfully in various oral and written forms [K_W03 (P6S_WG)]	
<b>Skills:</b> As a result of the course, the student is able to:		
1	discuss general and field specific issues using an appropriate linguistic and grammatical repertoire [K_U13 (P6S_UK)]	
2	communicate in English in general and professional environment using different techniques and also using mathematical tools [K_U13 (P6S_UK)]	
3	prepare and give a presentation in English on field specific issues in the area of mathematics in technology [K_U13 (P6S_UK)]	

4	read and understand mathematical texts and technical documents, manuals of electrical machines and similar documents [K_U13 (P6S_UK)]	
<b>Social competencies:</b> As a result of the course, the student will acquire the following competencies:		
1	is able to communicate effectively in English in professional areas and in typical everyday situations and also to work in team [K_K01 (P6S_KK)]	
2	is able to recognize and understand cultural differences in a professional and private conversation in English, and in a different cultural environment, understands social aspects of practical application of acquired competences and acts ethically [K_K01 (P6S_KK)]	
3	is able to find specialist information in English literature sources [K_K01 (P6S_KK)]	
<b>Assessment methods of study outcomes</b>		
<b>1. Formative assessment:</b> assessment during language classes: oral performance, written assignments, MT test, speech/presentation, tests <b>2. Summative assessment:</b> final oral and written examination		
<b>Course description</b>		
1. Electrical machines: transformer, generator. 2. Power transmission and distribution. 3. Smart grid. 4. Renewable and non-renewable energy sources. Update: 10.2018		
<b>Basic bibliography:</b>		
Dubis, A. / Firganeck, J. 2006. <i>English through Electrical and Energy Engineering</i> . Kraków: Studium Praktycznej Nauki Języków Obcych Politechniki Krakowskiej. Gajewska-Skrzypczak, I./ Sawicka, B. 2013. <i>English for Electrical Engineering</i> . Poznań: Publishing House of Poznan University of Technology.		
<b>Additional bibliography:</b>		
Pople, S. 2001. <i>Complete Physics</i> . Oxford: Oxford University Press. Campbell, S. 2009. <i>English for the Energy Industry</i> . Oxford: Oxford University Press. Brieger, N. / Pohl, A. 2002. <i>Technical English Vocabulary and Grammar</i> . Oxford: Summertown Publishing Ltd. Murphy, R. 2012. <i>Essential English Grammar in Use</i> . Cambridge: Cambridge University Press. Internet sources (howstuffworks, science daily, wikipedia)		
<b>Result of average student's workload</b>		
<b>Activity</b>		<b>Time (working hours)</b>
participation in classes		60
preparing a presentation		1
preparing for tests, homeworks		4
preparing and participating in a final examination		10
<b>Student's workload</b>		
<b>Source of workload</b>	<b>hours</b>	<b>ECTS</b>
Total workload	75	3
Contact hours	60	2
Practical activities	15	1