

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject German Course (technical)		Code
Field of study Mathematics in Technology	Profile of study (general academic, practical) general academic	Year /Semester 1 / 2
Elective path/specialty -	Subject offered in: German	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) (university-wide, from another field) other university-wide		
Education areas and fields of science and art Technical sciences Technical sciences		ECTS distribution (number and %) 3 100% 3 100%
Responsible for subject / lecturer: Mgr Maja Rakiewicz email: maja.rakiewicz@put.poznan.pl tel. 61 665 2705 Centrum Języków i Komunikacji ul. Piotrowo 3A 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	The already acquired language competence compatible with level B1 (CEFR) - [PQF 4]
2	Skills	The ability to use vocabulary and grammatical structures required on the high school graduation exam regarding productive and receptive skills – [PQF 4]
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 ought to acquire field specific vocabulary related to the following issues:		
<ul style="list-style-type: none"> - basics of Electrical Engineering - forms of electrical energy - renewable energy - electrical machines <p>[K_W03 (P6S_WG)] and to be able to define and explain associated terms, phenomena and processes. [K_W03 (P6S_WG)]</p>		

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 German), and discuss general and field specific issues using an appropriate linguistic and grammatical repertoire [K_U13 (P6S_UK)]
2 express basic mathematical formulas and to interpret data presented on graphs/diagrams [K_U13 (P6S_UK)]
3 formulate a text in German where he/ she explains/ describes a selected field in specific topics [K_U13 (P6S_UK)]
Social competencies:
1 As a result of the course, the student is able to communicate effectively in a field specific/professional area, and to give a successful presentation in German [K_K01 (P6S_KK)]
2 The student is able to 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		
1. Formative assessment: assessment during language classes: oral performance, written assignments, mid-term test, speech/presentation, tests		
2. Summative assessment: final examination		
Course description		
Electrical charge, voltage, current, operation of electrical current, resistance, measuring of electrical current Forms and carrier of electrical energy Renewable energy: solar panels, geothermal energy, wind energy, water turbine Transformer, generator, electrical machines Update: 10.2018		
Basic bibliography: Steinmetz, M./ Dintera, H.: Deutsch für Ingenieure, Ein DaF Lehrwerk für Studierende ingenieurwissenschaftlicher Fächer, Springer Vieweg 2014		
Additional bibliography: Fearn, A./ Buhlmann, R.: Technisches Deutsch für Ausbildung und Beruf, Lehr- und Arbeitsbuch, Verlag Europa-Lehrmittel, Goethe Institut 2013		
Result of average student's workload		
Activity	Time (working hours)	
participation in classes (30 x 2h)	60	
preparing a presentation	10	
preparing for tests, homework	10	
preparing and final examination	10	
Student's workload		
Source of workload	hours	ECTS
Total workload	90	3
Contact hours	60	2
Practical activities	60	1