COURSE DESCRIPTION CARD - SYLLABUS

Course name
German [S1Energ2>JN1]

Course

Field of study
Power Engineering

Year/Semester
1/2

Area of study (specialization)
–

Profile of study
general academic

Level of study
first-cycle

Course offered in
Polish

Form of study
full-time

Requirements
elective

Number of hours

Lecture
0

Laboratory classes
0

Other
0

Tutorials
30

Projects/seminars
0

Number of credit points

2,00

Coordinators

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Lecturers

Prerequisites

Language competence compatible with level B1(CERF). The ability to use vocabulary and grammatical structures required on the high school graduation exam regarding productive and receptive skills.The ability to work individually and in a group. The ability to use various sources of information and reference works.

Course objective

To help the student achieve the ability to use general and field-specific language effectively, with respect to the following language skills: listening, reading, writing, speaking. To improve the student's ability to function effectively on the international job market and in everyday life.

Course-related learning outcomes

Knowledge:
The student has acquired field-specific vocabulary related to the following issues: models of atom, electric charge, static electricity, direct current, alternating current, basic electrical quantities and laws, components of an electrical circuit and their functions, types of el. materials, basic mathematical terms.

Skills:

The student is able to use German to provide definitions of terms, and explain phenomena and processes referred to in the programme ; interpret source materials.

Social competences:
The student is able to communicate effectively in general and field-specific area, and communicate in German in public.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Formative assessment: regular assessment of in-class performance and home assignments, quizzes.
Summative assessment: written tests
To obtain a positive assessment the student is obliged to pass the material covered by the program with at least 50%.

Programme content

The programm includes the following content:
Mathematics
Diagrams
Studying
Basic concepts of electricity
Electric circuit

Course topics

Mathematical terms.
Studies in Poland.
Interpretation and description of graphical diagrams.
Specialised topics: basic concepts in the science of electricity, electric charge, voltage, current , resistance, Coulomb's law, Ohm's law.
Elements of an electrical circuit.
Electromagnetic induction.
Properties of electrotechnical materials.
Direct current and alternating current.

Teaching methods

Classroom activities guided by the communicative approach.
Using multimedia. Working with text.

Bibliography

Basic:
1. Steinmetz M., Dintera H.: Deutsch für Ingenieure, Springer Vieweg, Wiesbaden 2014
2. Jabłońska D.: Energie, Roboter, Autos, Züge, Politechnika Krakowska, Kraków 2014

Additional:
1. Fearns A., Buhlmann R.: Technisches Deutsch für Ausbildung und Beruf, Verlag Europa, Nourney 2013
2. Zierhut H.: Heizungs- und Lüftungstechnik, Klett Verlag, Stuttgart 1993
3. Perlmann M., Schwalb S.: Sicher B2 aktuell, Hueber Verlag, München 2019
4. Zettel E., Janssen J., Müller H.: Aus moderner Technik und Naturwissenschaft, Hueber Verlag, Berlin 2003
5. Jin F., Voß U.: Grammatik aktiv, Cornelsen Verlag, Berlin 2013
6. Becker J., Merkelbach M.: Deutsch am Arbeitsplatz, Cornelsen Verlag, Berlin 2013
7. Maenner D.: Prüfungstraining telc Deutsch B1+Beruf, Cornelsen Verlag, Berlin 2012
8. Professional literature (online resources) .

Breakdown of average student's workload

	Hours	ECTS
Total workload	55	1,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	25	1,00