



COURSE DESCRIPTION CARD - SYLLABUS

Course name

English [S1Elmob1>JAng1]

Course

Field of study

Electromobility

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

3,00

Coordinators

mgr inż. Krystyna Ciesielska

krystyna.ciesielska@put.poznan.pl

mgr Agata Janicka

agata.janicka@put.poznan.pl

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 in the academic environment and in everyday life.

Course-related learning outcomes

Knowledge:

The student has acquired field-specific vocabulary related to the following issues: basic laws and electrical quantities, components of a circuit and their functions, electrical materials, electromobility,

electric vehicles, sources of energy; maths.

Skills:

The student is able to use English to provide definitions of terms, and explain phenomena and processes referred to in the programme; express basic mathematical formulas; interpret source materials; communicate by email in the academic environment,

Social competences:

The student is able to communicate effectively in the academic environment and everyday situations, and communicate in English in public.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

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Formative assessment: regular assessment of in-class performance and home assignments, quizzes.

Summative assessment: two 90 minute-long written quizzes featuring a battery of tests. Successful completion of home assignments and a 55% score on both quizzes are required to obtain a pass.

Programme content

Mathematical terms. General topics: lifestyles, travelling, work. Field-specific topics: basic notions in electricity,

Course topics

Electrical quantities. Coulomb's law, Ohm's law, Kirchhoff's laws. Circuit components. Electrical materials. Superconductivity.

The notion of electromobility. Components of electric vehicles/hybrid cars.

Teaching methods

Classroom activities guided by the communicative approach. Multimedia. Text analysis.

Bibliography

Basic

Gajewska-Skrzypczak, I. and Sawicka, B. 2017. English for Electrical Engineering, 2nd ed. Poznań: Publishing House of Poznan University of Technology

System Perspectives on Electromobility Edition: 1.1 Publisher: Chalmers University of Technology; <http://www.chalmers.se/en/areas-of-advance/energy/cei/Pages/Systems-Perspectives.aspx> Editor: Björn Sandén ISBN: ISBN 978-91-980973-1-3. Available online

Additional

Banks, T. 2012. Writing for Impact. Cambridge University Press.

Dubis, A. and Firganek, J. 2006. English through Electrical and Energy Engineering. Kraków: Studium Praktycznej Nauki Języków Obcych Politechniki Krakowskiej.

Grzegożek, M. and Starmach, I. 2004. English For Environmental Engineering. Kraków: Studium Praktycznej Nauki Języków Obcych Politechniki Krakowskiej.

Emmerson, P. 2003. Email English. Macmillan.

English for Academics, Book 1. 2014. Cambridge University Press.

Kubot, A. and Maćków, W. 2015. Mathematics and Graphs Vocabulary Practice for Academic English Studies. Poznań: Publishing House of Poznan University of Technology.

Murphy, R. 2012. English Grammar in Use. Cambridge: Cambridge University Press. (all levels)

Internet sources, e.g. <https://www.energy.gov/eere/electricvehicles/electric-vehicle-basics>,

<https://www.infineon.com/cms/en/discoveries/electromobility/>

Breakdown of average student's workload

	Hours	ECTS
Total workload	80	3,00
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)	50	2,00