



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Foreign language

Course

Field of study

Electromobility

Area of study (specialization)

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Level of study

First-cycle studies

Form of study

full-time

Year/Semester

1/2

Profile of study

general academic

Course offered in

English

Requirements

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

30

Number of credit points

3

Lecturers

Responsible for the course/lecturer:

mgr inż. Krystyna Ciesielska

Responsible for the course/lecturer:

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:

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 60% 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, Coulomb's law, Ohm's law, Kirchhoff's laws. Electrical materials. Circuit components. 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

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

Grzegozek, 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. Poznan: 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	70	3,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for tutorials, preparation for tests, teamwork - small projects) ¹	40	2,0

¹ delete or add other activities as appropriate