



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

2/4

Profile of study

general academic

Course offered in

English

Requirements

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

60

Number of credit points

4

Lecturers

Responsible for the course/lecturer:

mgr inż. Krystyna Ciesielska

Responsible for the course/lecturer:

Prerequisites

Language competence compatible with level B1+(CEFR). The ability to use vocabulary and grammatical structures required on the high school graduation exam regarding productive and receptive skills, and the vocabulary and concepts introduced during the 2nd and 3rd semester English courses. The ability to work individually and in a group. The ability to use various sources of information and reference works.

Course objective

To advance the student's language competence towards level B2 (CEFR). 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 perfect the student's ability to use field-specific texts and to familiarize the student with basic translation techniques. To develop the student's ability to recognize and express cause-effect relationships. To foster the habit of logical thinking (analysis and synthesis of information).

Course-related learning outcomes

Knowledge

The student has acquired field-specific vocabulary related to the following issues: Energy storage.



Powering EVs. Efficiency and safety of EVs. Technological, environmental and ethical aspects of developing and using EVs.

Skills

The student is able to use English to provide definitions of terms, and explain phenomena and processes referred to in the programme; interpret source materials; talk on field-specific and general topics, using an appropriate linguistic and grammatical repertoire; take notes and write a summary of a text.

Social competences

The student is able to communicate effectively in general and field-specific areas, 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: three 90 minute-long written quizzes featuring a battery of tests. Successful completion of home assignments and a 60% score on all of the quizzes are required to obtain a pass.

Final written and oral exam, level B2 (CERF).

Programme content

General topics: environmental protection, modern technologies. Field-specific topics: Ways of storing electrical energy. Batteries. Supercapacitors. Powering EVs. Efficiency and safety of EVs. Technological, environmental and ethical aspects of developing and using EVs.

Grammatical structures compatible with level B2 (CERF).

Teaching methods

Classroom activities guided by the communicative approach. Multimedia. Working with text.

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

Bailey, S. 2011. Academic Writing: A handbook for international students. Routledge.

Campbell, S. 2009. English for the Energy Industry. Oxford: Oxford University Press.



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

Dummett, P. 2010. Energy English For the Gas and Electricity Industries. Andover: Heinle Cengage Learning.

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

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

Sarasini, S. 2014. Systems Perspectives on Renewable Power. Edition: 1.1. Publisher: Chalmers University of Technology. ISBN: 978-91-980974-0-5. Available online

Internet sources - howstuffworks, sciencedaily, BBC (technology, science), Wikipedia

Breakdown of average student's workload

	Hours	ECTS
Total workload	100	4,0
Classes requiring direct contact with the teacher	70	3,0
Student's own work (literature studies, preparation for tutorials, preparation for tests and final exam, teamwork - small projects) ¹	30	1,0

¹ delete or add other activities as appropriate