



COURSE DESCRIPTION CARD - SYLLABUS

Course name

English language

Course

Field of study

Mechatronics

Area of study (specialization)

-

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

elective

Number of hours

Lecture

0

Laboratory classes

0

Other (e.g. online)

0

Tutorials

30

Projects/seminars

0

Number of credit points

5

Lecturers

Responsible for the course/lecturer:

mgr Małgorzata Konopko

Responsible for the course/lecturer:

email: malgorzata.konopko@put.poznan.pl

tel. 616652705

Centrum Języków i Komunikacji

ul. Piotrowo 3A, 60-965 Poznań

Prerequisites

The already acquired language competence compatible with level B1 (CEFR). The ability to use general and field specific vocabulary, and grammatical structures required on the first level of studies. The ability to work individually and in a group; the ability to use various sources of information and reference works.

Course objective

1. Advancing students' language competence towards the level at least B2 (CEFR).
2. Development of the ability to use field specific language effectively in both receptive and productive language skills.



3. Improving the ability to understand field specific texts.
4. Improving the ability to function effectively on an international market.

Course-related learning outcomes

Knowledge

As a result of the course, the student ought to acquire field specific vocabulary related to the following issues:

1. Maths and geometry
2. Graphs
3. Engineering
4. Mechatronics
5. Mechanics: mechanisms, types of motion
6. Materials science

and to be able to define and explain associated terms, phenomena and processes.

Skills

As a result of the course, the student is able to:

1. give a talk on field specific topic (in English), and discuss field specific issues using an appropriate linguistic and grammatical repertoire
2. express basic mathematical formulae
3. describe a graph in English

Social competences

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 English. The student is able to recognize and understand cultural differences in a professional and private conversation, and in a different cultural environment.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Knowledge acquired during the classes is verified by tests and a presentation. The tests consists of several tasks (open and closed), scored differently. Pass: 60% of points. Students prepare a short presentation.

Programme content

1. Issues and vocabulary related to engineering and its main branches, characteristics of different engineering disciplines, the place of mechatronics in the realm of engineering; the objectives of mechatronics.



2. Concepts and vocabulary connected with the structure and operation of simple machines including levers, cams , gears, pulleys, inclined planes, screws, mechanical advantage.

3.Classification, characteristics and application of materials used in engineering including metals, plastics, timber , compisites and ceramics

Teaching methods

auditorium classes, guided text method; The teaching methods are based on the improvement of four basic language competences (listening, speaking, reading, writing) being the medium to expand the substantive knowledge in the field of technical topics.

Bibliography

Basic

Dubis, A. i Firganek , J.2006 English through electrical and energy engineering. Kraków: SPNJO Politechniki Krakowskiej

Glendinning, E.i Glendinning, N. 1995, Oxford English for Electrcal and mechanical engineering, Oxford; Oxford University Press

Glendinning, E i McEwan, J.1996 Oxford English for Electronics, Oxford: Oxford university Press

Hanf, B. 2000 Angielski w Technice, Stuttgart: LektorKlett

Internet based materials

Additional

Kubot, A. i Maćków,W. 2015. „Mathematics and graphs – vocabulary pracice for academic English studies”.

Breakdown of average student's workload

	Hours	ECTS
Total workload	60	5,0
Classes requiring direct contact with the teacher	30	3,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	30	2,0

¹ delete or add other activities as appropriate