



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

language course - English

### Course

Field of study

Electronics and Telecommunication

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

I/I, I/II

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

120

Projects/seminars

x

### Number of credit points

6

### Lecturers

Responsible for the course/lecturer:

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Responsible for the course/lecturer:

Center of Languages and Communication, PUT,

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### Prerequisites

According to the national curriculum it is assumed that the already acquired language competence is compatible with the minimum B1 level. The ability to use vocabulary and grammatical structures required on the high school graduation exam with regard to 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

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



3. Improving the ability to understand field specific texts (familiarizing students with basic translation techniques).

### Course-related learning outcomes

#### Knowledge

As a result of the course in the first semester of the foreign language, the student acquires field specific vocabulary related to the following issues: Description and interpretation of graphs and diagrams, mathematical terms, Mobility and convergence in digital technology, digital electronics, electronic equipment in operation. Computer technology and selected electronic components, computing history and future development – five generations of computers and the Internet. In the other semester, the student acquires knowledge on selected aspects of data centres, cyber security, advantages and disadvantages of outsourcing, telecommunications media of transmission and local/global networking. The student has the knowledge enabling him to define and explain associated terms, phenomena and processes.

#### Skills

As a result of the course, the student is able to express basic mathematical formulas and to interpret data presented on graphs/diagrams, to give a short talk on field specific or popular science topic, and discuss general and field specific issues using an appropriate linguistic and grammatical repertoire. In the other semester, the student is able to prepare and deliver a presentation, to formulate a text where he/she explains/describes a selected field specific topic, describes in writing a short technical process or a particular appliance.

#### Social competences

As a result of the course, the student is able to communicate effectively in a field specific/professional area, express opinions on the development of electronics and telecommunications and to give a successful presentation in English, The student is able to recognize and understand dilemmas related to work within the scope of electronics and telecommunications, understands 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:

There is on-going assessment, evaluation based on students' presentations, in each semester there are two 45-minute writing tests with the passing grade >50%, one oral test on a specific technical problem/issue (the content, grammar and lexis are graded 2-5). Summative assessment in the first semester- credit. Summative assessment in the other semester- credit, as well as the final exam consisting of two parts - the writing part (a test covering four competences: listening, reading, writing and lexis) as well as the oral part consisting of a short speech on the selected technical problem related to the issues analyzed in tutorials and a dialogue on the issue chosen from the list of accessible topics at [clc.put.poznan.pl](http://clc.put.poznan.pl) (general English). The passing grade >50%, The ACERT certificate at the B2 level is obtained when the grade amounts to at least 55%.

### Programme content



In the first semester, developing the ability to interpret graphs and charts and mathematical operations. Reading technical texts and acquiring general scientific vocabulary. Becoming familiar with the term convergence in electronic technology and mobility. Learning names and functions of electrical and electronic components. Analyzing texts that show the historical development of computing and the Internet and the consequences of specific inventions for this development. In the other semester, students exercise language functions which help them to describe the physical laws and phenomena enabling the operation of electric equipment and the topology, principle of operation of telecommunication networks. In addition, there is the description of the structure and selected aspects of data centers. Learning the principles of cyber security and discussing selected terms related to cyber security.

### Teaching methods

Students carry out a program based on selected chapters from the primary and secondary literature and based on the sources of information from the Internet. Students analyze the source material presented by the teacher in the form of tutorials, work individually, in pairs and groups. They also do lexical and grammatical exercises individually at the computer.

### Bibliography

#### Basic

Ricca-McCarthy, Tom. Duckworth, Michael. 2009. English for Telecoms and Information Technology. Oxford: OUP.

#### Additional

Grzegozek, Małgorzata. Starmach, Iwona. 2004. English For Environmental Engineering. Kraków: PK.

Hanf, Bodo. 2001. Angielski w technice. Poznań: LektorKlett

Kubot, Aleksander. Maćków, Weronika. 2015. Mathematics and Graphs Vocabulary Practice for Academic English Studies. Poznan: PHPUT

Maksymowicz, Roman. 2010. Język angielski dla elektroników i informatyków. Rzeszów: WO Fosze.

Murphy, Raymond. 1994. English Grammar in Use. Cambridge: CUP

O'Malley, Kieran. English for New Technology Electricity, Electronics, IT and Telecoms, 2012, Milano-Torino, Pearson

Richards-Sopranzi, Sabrina. Flash on English for Mechanics and Electronics, Second Edition, 2016. Loreto: Tecnostampa.

Yule, George. Oxford Practice Grammar Advanced. 2010. Oxford: OUP.

Internet sources: <https://www.newscientist.com/>, <https://www.technologyreview.com/>



### Breakdown of average student's workload

	Hours	ECTS
Total workload	180	6,0
Classes requiring direct contact with the teacher	120	4,0
Student's own work (literature studies, grammar practice, preparation for classes/tutorials, preparation for tests, participation in training (can be conducted on-line) related to the realization of the educational process concerning the writing skill and presentation preparation). Preparation for the final certified ACERT exam <sup>1</sup>	60	2,0

<sup>1</sup> delete or add other activities as appropriate