# POZNAN UNIVERSITY OF TECHNOLOGY

## EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

# COURSE DESCRIPTION CARD - SYLLABUS

Course name
English [S1EiT1>JANG2]

## Course

| | |
|---|---|
| Field of study | Year/Semester |
| Electronics and Telecommunications | 2/3 |
| Area of study (specialization) | Profile of study |
| – | general academic |
| Level of study | Course offered in |
| first-cycle | english |
| Form of study | Requirements |
| full-time | elective |

## Number of hours

| | | |
|---|---|---|
| Lecture | Laboratory classes | Other (e.g. online) |
| 0 | 0 | 0 |
| Tutorials | Projects/seminars | |
| 60 | 0 | |

## Number of credit points

4,00

| Coordinators | Lecturers |
|---|---|
| mgr Elżbieta Jeziorek elzbieta.jeziorek@put.poznan.pl | |

## Prerequisites

According to the national curriculumit is assumed that the already acquired language competence is compatible with level B1. 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 semestr 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 aquires knowledge on selected aspects of data centres, cyber security, advantages and diadvantages 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 semestr, 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, its particular methods may vary and remain for the teacher to decide. They may include: written and oral tests, presentations, projects, other tasks. 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 a 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 (general English). The ACERT certificate at the B2 level is obtained if the requirements published at CLC PUT website are met.

## Programme content

In the first semester, developing the ability to interpret graphs/charts and mathematical operations; reading technical texts and acquiring general scientific vocabulary, becoming familiar with the scope of interest and application of teleinformatics, electronics and telecoms, introducing computer technology terms and definitions, 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 electronic equipment , learn about electrical and electronic components and circuits, the topology and principles of operation of telecommunication networks. In addition, there is a description of the structure and discussion of 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, work individually, in pairs and groups. They also take lexical and grammatical exercises in the form of tutorials and individually at the computer.

## Bibliography

Basic:
Richards_Sopranzi, S., Flash on English for Mechanics and Electronics, 2nd edition, Loreto:Tecnostampa 2017.

Additional:

• Bailey, S., Academic Writing: A handbook for international students, wyd. 3, Routledge, Nowy Jork 2011.
• Banks T., Writing for Impact, Cambridge University Press 2012.
• Dignen B., Communicating Across Cultures, Cambridge University Press 2011.
• Evans V., FCE Use of English, Express Publishing, wyd. 2, Express Publishing, Cambridge 1998. (lub inne dostępne repetytorium gramatyczne)
• Fitzgerald P., McCullagh M., Tabor C., English for ICT Studies in Higher Education Studies, Garnet Publishing Ltd. 2011.
• Grzegożek M., Starmach I., English For Environmental Engineering, Politechnika Krakowska, Kraków 2004.
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• Kubot, A., Maćków, W., Mathematics and Graphs Vocabulary Practice for Academic English Studies, PHPUT, Poznań 2015.
• McCarthy M., O'Dell F., Academic Vocabulary in Use, Cambridge University Press 2015.
• O'Malley K., English for New Technology Electricity, Electronics, IT and Telecoms, Pearson, Mediolan - Turyn 2012.
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• Ricca-McCarthy T. Duckworth M. English for Telecoms and Information Technology. Oxford 2018.
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• http://www.webopedia.com/DidYouKnow/Hardware_Software/FiveGenerations.asp
• https://www.webopedia.com/TERMRichards-Sopranzi, Sabrina. Flash on English for Mechanics and Electronics, Second Edition, 2016. Loreto: Tecnostampa.
Internet sources: ttps://www.newscientist.com/, https://www.technologyreview.com/

## Breakdown of average student's workload

|  | Hours | ECTS |
| --- | --- | --- |
| Total workload | 180 | 6,00 |
| Classes requiring direct contact with the teacher | 120 | 4,00 |
| Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation) | 60 | 2,00 |