



COURSE DESCRIPTION CARD - SYLLABUS

Course name

English [S1Teleinf1>JANG3]

Course

Field of study

Teleinformatics

Year/Semester

2/3

Area of study (specialization)

–

Profile of study

general academic

Level of study

first-cycle

Course offered in

English

Form of study

full-time

Requirements

elective

Number of hours

Lecture

0

Laboratory classes

0

Other

0

Tutorials

30

Projects/seminars

0

Number of credit points

2,00

Coordinators

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Lecturers

Prerequisites

According to the national curriculum it 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 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, digital electronics, electronics and electronic equipment in operation,

computer technology, computing history and future development – five generations of computers and the Internet. In the second semester, the student develops further the knowledge of certain aspects of computer science, including cyber security and cloud computing and discusses recent developments in ICT. The third semester focuses on particular issues in electronics, related to: transistors, integrated circuits, microprocessors and other electronic components. In the fourth semester telecommunications media of transmission and local/global networking are discussed. 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

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

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, second and third semester- credit. Summative assessment in the fourth semester- credit, as well as the final exam consisting of two parts - the writing (a test covering four competences: listening, reading, writing 3 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 presented at CLC PUT website are met.

Programme content

1. Working with technical English or scientific articles.
2. Electronic circuit.
3. Electrical circuit.
4. Project work or presentations.

Course topics

1. Technical or scientific article.
2. Semiconductors.
3. Transistor.
4. Electricity and electrical circuit.
5. Integrated Circuits.
6. Microprocessors and logic gates.
7. Other electronic components.
8. Optoelectronics: lasers

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, wyd. 2, Tecnostampa, Loreto 2016.
O'Malley K., English for New Technology Electricity, Electronics, IT and Telecoms, Pearson, Mediolan -

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Additional:

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Banks T., *Writing for Impact*, Cambridge University Press 2012.

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Evans V., *FCE Use of English*, Express Publishing, 2nd ed., Express Publishing, Cambridge 1998. (lub inne dostępne repetytorium gramatyczne)

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Hewings, M., *Cambridge Academic English, Upper Intermediate*, Cambridge University Press 2012.

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.

Oshima A., Hogue A., *Writing Academic English*, 4th ed., Longman, Nowy Jork 2006.

Rajendra R.C.N, *Fundamentals of Electronics*, wyd. 2, Lightning Source Inc., 2022.

Ricca-McCarthy T. Duckworth M. *English for Telecoms and Information Technology*. Oxford 2018.

Watson, D., & Williams, H. (2019). *Cambridge International AS and A level Computer Science*. Hodder

Wright V., Taylor D., *Cambridge IGCSE ICT*, wyd. 2, Cambridge University Press 2016.

Selected online sources

Breakdown of average student's workload

	Hours	ECTS
Total workload	228	8,00
Classes requiring direct contact with the teacher	124	4,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	104	4,00