



COURSE DESCRIPTION CARD - SYLLABUS

Course name

English [S1Teleinf1>JANG1]

Course

Field of study
Teleinformatics

Year/Semester
1/1

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. Bringing students' language proficiency to at least B2 level. 2. Developing the ability to effectively use both general academic language and specialized language relevant to the specific field of study, across the four language skills. 3. Improving the ability to work with technical texts (introducing students to 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 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:

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 and fourth semester- credit. After the fourth semester, the course is also concluded with an exam, which consists of a written and an oral part. The written part takes the form of a test assessing the four language skills (listening, reading, writing, and vocabulary), while the oral part involves answering a randomly selected technical question (covering topics discussed during the exercises) and a general language question (based on topics available on the website clc.put.poznan.pl). The ACERT certificate at the B2 level is obtained if the requirements specified at CLC PUT website are met.

Programme content

1. Mathematics.
2. Graph description and interpretation.
3. Teleinformatics and electronics: scope and interests.
4. Computer technologies: history and recent developments.

Course topics

1. Numbers and basic mathematical operations.
2. Geometry.
3. Visual representation of data.
4. Graph description and interpretation.
5. Teleinformatics: definition and scope of interests.
6. Electronics: definition and scope of interests.
7. Computer history: 5 generations of computers.
8. Quantum computers and AI.

Teaching methods

Students follow the curriculum based on selected chapters from core and supplementary literature, as well as sources of information from the Internet. They analyze source materials provided by the instructor and work individually, in pairs, and in groups under the instructor's guidance. They also complete lexical and grammatical exercises in a classroom setting or independently at a computer.

Bibliography

Basic:

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

Additional:

Bailey, Stephen. 2011. Academic Writing: A handbook for international students. Routledge (AW)

Banks, Tim. Writing for Impact. 2012. CUP

Brieger N., Pohl A., Technical English Grammar, Summertown Publishing 2002

Dignen, Bob. 2014. Communicating Across Cultures. CUP

Evans, Virginia. 1998. FCE Use of English. Express Publishing.

Fitzgerald, Patrick. McCullagh, Marie. Tabor, Carol. 2011. English for ICT Studies in Higher Education Studies. Garnet Publishing Ltd.

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

Hewings, Martin. Cambridge Academic English, Upper Intermediate. 2012. CUP

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

McCarthy, Michael & O'Dell, Felicity. 2008. Academic Vocabulary in Use. CUP

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

Oshima, Alice. Hogue, Ann. 2006. Writing Academic English. Longman.

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

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

Wright V., Taylor D., Cambridge IGCSE ICT, 2 edition, 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