



COURSE DESCRIPTION CARD - SYLLABUS

Course name

English [S1S1E>JANG4]

Course

Field of study

Artificial Intelligence

Year/Semester

2/4

Area of study (specialization)

–

Profile of study

general academic

Level of study

first-cycle

Course offered in

English

Form of study

full-time

Requirements

compulsory

Number of hours

Lecture

0

Laboratory classes

0

Other

0

Tutorials

30

Projects/seminars

0

Number of credit points

2,00

Coordinators

mgr Łukasz Woźniakowski

lukasz.wozniakowski@put.poznan.pl

Lecturers

Prerequisites

Students should demonstrate language skills at the B1 level, according to the Common European Framework of Reference for Languages (CEFR). This includes knowledge of grammatical structures and the general vocabulary required for the basic 'matura' exam (upper secondary school leaving examination) in English, covering both productive and receptive skills. In terms of skills, they are expected to effectively use various information sources, work well in a team, and engage in self-directed learning. Furthermore, regarding social competencies, students should exemplify honesty, responsibility, empathy, perseverance, intellectual curiosity, appropriate personal conduct, respect for others, and an openness to cultural diversity.

Course objective

The course objectives are to: 1. Elevate students' language proficiency to a minimum of B2 according to the Common European Framework of Reference for Languages (CEFR). 2. Develop the ability to effectively use both general academic language and specialised terminology pertinent to computer science, encompassing all four language skills. 3. Enhance skills in working with specialised technical texts. 4. Refine the ability to navigate the international job market and everyday situations, including honing presentation and academic writing skills.

Course-related learning outcomes

Knowledge

Students:

1. Have a general vocabulary in English at the B2 level according to the Common European Framework of Reference for Languages (CEFR) and specialised terminology related to selected areas of computer science and artificial intelligence.
2. Know the essential grammatical structures required for describing and translating phenomena and processes associated with these fields.

Skills

Students:

1. Can search, analyse, and integrate information from various sources in English, critically assess it, and effectively formulate and justify their opinions on the subject [K1st_U1].
2. Can deliver a presentation in English on a specialised computer science topic with particular emphasis on artificial intelligence or a popular science subject, and speak on general and technical topics using specialised terminology and an appropriate range of general vocabulary and grammatical structures [K1st_U14, K1st_U13].
3. Can express basic mathematical operations in English and interpret data presented in a diagram or graph [K1st_U14].
4. Can compose a text in English explaining or describing a selected specialised topic from the field of computer science [K1st_U14].
5. Demonstrate language skills in English that meet the criteria for the B2 level according to the Common European Framework of Reference for Languages (CEFR) [K1st_U13].

Social competences

Students:

1. Recognise the importance of proficiency in English for effectively communicating knowledge and opinions on engineering, technological achievements, and the role of computer scientists, especially those specialising in artificial intelligence, to the wider society [K1st_K6].
2. Notice and adapt to cultural differences in behaviour and both professional and private communication in English within diverse cultural contexts [K1st_K6].

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Formative Assessment:

1. Short control tests (e.g., assessing vocabulary or grammar)
2. Short written assignments
3. Presentations or oral statements on topics related to specialist English
4. Self-assessment or peer assessment in pairs or small groups

Summative Assessment:

1. Final tests (written or oral)
2. Final project or presentation on a selected topic from the field
3. Assessment of class participation and contribution to group tasks

General Assessment Criteria:

1. Linguistic accuracy, including the use of specialist vocabulary and terminology
2. Ability to present and logically convey information and arguments
3. Analysis and interpretation of source materials
4. Active participation in classes and interaction with other participants

Programme content

1. Artificial intelligence
2. Robotics
3. The digital divide
4. The future of IT and AI
5. Academic writing
6. Student projects
7. Exam practice

Course topics

1. Machine learning and deep learning
2. The impact of AI on society, the economy and the environment
3. Evolution and types of robotics
4. Autonomous robots and control strategies.
5. Research directions and ethical considerations in robotics
6. Causes of the digital divide
7. The effects of the digital divide
8. Groups affected by the digital divide
9. Current and expected developments in IT and AI and their impact on different aspects of our lives
10. Writing a graph description
11. Writing an argumentative essay (optional)

Teaching methods

1. Communicative exercises, i.e., discussions, debates, simulations, role-plays
2. Listening comprehension, written exercises, and lexical and grammatical exercises
3. Exercises using multimedia technology, language games
4. Presentation of materials and text analysis
5. Individual work, pair work, small group activities and projects

Bibliography

Basic:

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

Brown, G., & Sargent, B. (2024). Cambridge International AS and A level Information Technology. Hodder Education Group.

Additional:

Glendinning, E. H., & McEwan, J. (2006). Information Technology. Oxford University Press.

Boeckner, K., & Brown, P. Ch. (1993). Oxford English for Computing. Oxford University Press.

Brookshear, J.G., & Brylow, D., (2018) Computer Science: An Overview. Pearson Educations.

Kubot, A. & Maćków W.(2015). Mathematics and graphs : vocabulary practice for academic English studies. Poznań: Publishing House of Poznan University of Technology.

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

Dignen, B. (2014). Communicating Across Cultures. Cambridge University Press.

English for Academics, Book 1. (2014). Cambridge University Press.

Oshima, A., & Hogue, A. (2006). Writing Academic English (4th ed.). Longman.

Banks, T. (2012). Writing for Impact. Cambridge University Press.

Thoreau, M. (2010). Write on Track: A Guide to Academic Writing. Longman.

Emmerson, P. (2003). Email English. Macmillan.

Jordan, R., R. (2008). Academic Writing Course. Longman.

Breakdown of average student's workload

	Hours	ECTS
Total workload	57	2,00
Classes requiring direct contact with the teacher	32	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	25	1,00