POZNAN UNIVERSITY OF TECHNOLOGY



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

COURSE DESCRIPTION CARD - SYLLABUS

Course name English [S1FT2>JANG1] Course Field of study Year/Semester **Technical Physics** 2/3Area of study (specialization) Profile of study general academic Level of study Course offered in first-cycle Polish Form of study Requirements full-time elective Number of hours Lecture Laboratory classes Other 0 n 0 Tutorials Projects/seminars 60 0 Number of credit points 4,00 Coordinators Lecturers mgr Karol Matysiak karol.matysiak@put.poznan.pl

Prerequisites

Language competence corresponding to the CEFR B1 level. Mastered grammatical structures and general vocabulary required in the basic level secondary-school leaving exam in a foreign language in terms of productive and receptive skills Ability to work independently and in a team; ability to use various sources of information

Course objective

1. Bringing the language competence of students to the minimum CEFR B2 level. 2. Developing the ability to use effectively general academic and specialist language appropriate for a given field of study within the scope of four language skills. 3. Improving the ability to work with a technical text. 4. Improving the ability to function on the international labour market and in everyday life.

Course-related learning outcomes

Knowledge:

As a result of teaching, the student is acquainted with vocabulary spanning the following areas:

- 1. Elements of mathematics: mathematical symbols, geometry, trigonometry
- 2. Innovations, laser technology, mechanical and electrical properties

- 3. Control systems, networks, cyberinfrastructure, sensors, industry 4.0
- 4. Electricity, magnetism
- 5. Universe, star formation, black holes

Skills:

As a result of teaching, the student is able to effectively:

1. make a presentation in English on a technical or popular science topic and express opinions on general and technical topics using appropriate vocabulary and grammatical structures

2. express basic mathematical operations in English and interpret data presented in the diagram / graph,

3. describe a diagram / graph

Social competences:

As a result of teaching, the student is able to effectively:

1. communicate in English in a professional environment and in typical everyday situations and has the ability to speak in public

2. recognize and understand cultural differences in behaviour

and a business and private conversation in English, and in a different cultural environment

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Continuous assessment during the semester - partial grades as the basis for a semester credit with a grade. Tests of knowledge acquired during the tutorials. Assessment of homework. Assessment of a presentation (general English, ESP), multiple choice tests, matching/gap filling/True False/ - grammar, lexis, definitions.

100-91%: very good (5.0)

90-82%: good plus (4.5)

81-73%: good (4.0)

72-64%: satisfactory plus (3.5)

63-50%: satisfactory (3.0)

49-0%: unsatisfactory (2.0)

5 Very good - excellent knowledge, skills and competences

4.5 Good plus - very good knowledge, skills and competences

4 Good - good knowledge, skills and competences

- 3.5 Sufficient plus satisfactory knowledge, skills, competences, but with significant shortcomings
- 3 Sufficient satisfactory knowledge, skills, competences, with numerous errors
- 2 Insufficient unsatisfactory knowledge, skills and competences

Programme content

none

Course topics

none

Teaching methods

Group work Pair work Individual presentations Audiovisual method Student's own work Consultation during the teacher's office hours

Bibliography

Basic: Bonamy, David. 2022. Technical English 4 second edition. Essex: Pearson

Additional:

Małecka, Zuzanna. 2017. Physics Not Only for Physicists. Kraków: Studium Praktycznej Nauki Języków Obcych Politechniki Krakowskiej

Thomson, A.J, A.V. Martinet. 2001. A Practical English Grammar. Oxford: Oxford University Press. Murphy, Raymond. 2012. English Grammar in Use. Cambridge: Cambridge University Press. Kenny, Nick, Lucrecia Luque-Mortimer. 2014. Cambridge English First Practice Tests Plus 2. Essex: Pearson.

Kucharska-Raczunas, Anna, Jolanta Maciejewska. 2010. English for Mathematics for Students of Technical Studies. Gdańsk: Wydawnictwo Politechniki Gdańskiej.

Beglar, David, Neil Murray. 2009. Academic Listening and Note-Taking Skills. New York: Pearson Longman.

Breakdown of average student's workload

	Hours	ECTS
Total workload	100	4,00
Classes requiring direct contact with the teacher	60	2,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	40	1,50