



COURSE DESCRIPTION CARD - SYLLABUS

Course name

English

Course

Field of study

Technical Physics

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

2/4

Profile of study

general academic

Course offered in

English

Requirements

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

60

Number of credit points

4

Lecturers

Responsible for the course/lecturer:

Karol Matysiak, MA

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Responsible for the course/lecturer:

Centrum Języków i Komunikacji PP

ul. Piotrowo 3a, 60-965 Poznań

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:

physics in computer games

particle physics and quantum physics

nanotechnology and nanomechanics

nuclear energy

solar energy – photovoltaic cells

lasers: history, mechanism, characteristics of light produced by a laser, applications

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. formulate a text in English explaining / describing selected specialist issues

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. Final exam.

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

As a result of teaching the student is acquainted with vocabulary related to:

IT, particle and quantum physics (LHC), nanotechnology and nanomechanics (graphene), nuclear energy (fission and fusion, reactors), solar energy – photovoltaic cells, active and passive systems, lasers:

Teaching methods

Group work

Pair work

Individual presentations

Audiovisual method

Student's own work

Consultation during the teacher's office hours

Bibliography

Basic

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

Additional

Dubis, Anna, Justyna Firganek. 2006. English through Electrical and Energy Engineering. Kraków: Studium Praktycznej Nauki Języków Obcych Politechniki Krakowskiej.

Ibbotson, Mark. 2009. Professional English in use – Engineering. Cambridge: Cambridge University Press.



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

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.

Breakdown of average student's workload

	Hours	ECTS
Total workload	90	4,0
Classes requiring direct contact with the teacher	60	
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	30	

¹ delete or add other activities as appropriate