COURSE DESCRIPTION CARD - SYLLABUS

Course name

English

Course

Field of study

Aerospace Engineering

Year/Semester

2/3

Area of study (specialization)

Aircraft engines and airframes

Profile of study

general academic

Level of study

First-cycle studies

Course offered in

Polish

Form of study

full-time

Requirements

elective

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

45

Projects/seminars

Number of credit points

3

Lecturers

Responsible for the course/lecturer:

mgr Kinga Komorowska

email: kinga.komorowska@put.poznan.pl

tel. 698921394

Centrum Języków i Komunikacji

ul. Piotrowo 3A, 60-965 Poznań

Responsible for the course/lecturer:

Prerequisites

When entering the course a student ought to have language competence corresponding to a minimum level of B1 according to the description of language proficiency levels (CEFR). They ought to be able to obtain information from literature, databases and other sources. They also should be aware of the responsibility for their own work, be ready to comply with the principles of teamwork and take responsibility for their role as well as be aware of the importance of professional behaviour and follow the rules of professional ethics.

Course objective

1. Bringing the language competence of students to the minimum level B2 (CEFR).

2. Developing the skills of effective use of the academic language and a specialist language appropriate for a given field, in terms of four language skills.

3. Improving the skills of working with technical texts on technical issues.

4. Improving the ability to function on the international labour market and in everyday life.

Course-related learning outcomes

Knowledge

1. has extended knowledge of English technical terminology related to aviation engineering

2. has extended specialist knowledge to describe in English the construction of aircraft, methods of construction, manufacture, operation, control of aircraft, safety systems, impact on the economy, society and the environment in the field of aviation engineering for Aircraft engines and airframes.

3. has basic specialized English vocabulary necessary to describe the social, economic, legal and other non-technical conditions of engineering activities

Skills

1. knows how to use English in verbal communication at the everyday language level and is able to describe issues from the field of study in this language

2. has the ability to self-study in English using modern teaching tools, such as websites, teaching programs, e-books

3. can obtain information from literature, the Internet and other sources. Is able to integrate obtained information, interpret and draw conclusions from them in English

Social competences

1. Is aware of the importance of maintaining the principles of professional ethics

2. Understands the need for critical assessment of knowledge and continuous learning

3. can inspire and organize the learning process of others

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

1. Formative assessment: current assessment during classes (presentations, tests)

2. Summative assessment: passing grade (credit)

Programme content

1. The piston engine – components and principle of operation

2. The piston engine – cycles of operation

3. Turboprop engine

4. Technologies used in air communication,

5. Flight control systems

6. Aircraft control surfaces and principles related to aircraft manoeuvring

7. International standard atmosphere (ISA)

8. The spheres of the atmosphere

9. Air circulation; types of winds

Teaching methods

Practical language exercises - presentation and consolidation of language content and skills illustrated with multimedia, examples on the board, written exercises, oral exercises (dialogues, discussions, building argumentation), listening and reading exercises, interactive online exercises (e.g. Kahoot, Quizlet)

Bibliography

Basic

1. Czerwiński, Piotr. Fleszar, Mateusz. 2015. English for Aviation Engineering . Rzeszów: Oficyna wydawnicza Politechniki Rzeszowskiej

2. Emery, Henry. Roberts, Andy. 2008. Aviation English for ICAO Compliance. Macmillan

Additional

1. Ellis, Ssue. Gerighty, Terence 2012. English for Aviation. Oxford

2. Czerwiński, Piotr. Fleszar, Mateusz. 2018. Expect the Unexpected . Rzeszów: Oficyna wydawnicza Politechniki Rzeszowskiej

Breakdown of average student's workload

	Hours	ECTS
Total workload	76	3,0
Classes requiring direct contact with the teacher	51	2,0
Student's own work (literature studies, preparation for classes, preparation for tests,) [1]	25	1,0

[1] delete or add other activities as appropriate