



COURSE DESCRIPTION CARD - SYLLABUS

Course name

English [S1AiR1E>JAng1]

Course

Field of study

Automatic Control and Robotics

Year/Semester

1/2

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

60

Projects/seminars

0

Number of credit points

5,00

Coordinators

mgr Marta Zakrzewska

marta.zakrzewska@put.poznan.pl

Lecturers

Prerequisites

Knowledge: The already acquired language competence compatible with level B1 (CEFR) Skills: The ability to use vocabulary and grammatical structures required on the high school graduation exam with regard to productive and receptive skills Social Competences: The ability to work individually and in a group; the ability to use various sources of information and reference works

Course objective

1. Advancing student's language competence towards at least level B2 (CEFR) 2. Developing the ability to use academic and field specific language effectively in both receptive and productive language skills 3. Improving the ability to understand field specific texts (familiarizing students with basic translation techniques) 4. Improving the ability to function effectively on an international market and on a daily basis

Course-related learning outcomes

Skills:

Is able to obtain information from literature, databases and other sources also in a chosen foreign language [K1_U1 (P6S_UW)].

Can prepare documentation concerning the realisation of an engineering task in Polish and foreign

language [K1_U4 (P6S_UW)].

Is able to give a presentation of results on an engineering task in Polish and foreign language [K1_U5 (P6S_UK)].

Can use a foreign language at level B2 of the Common European Framework of Reference for Languages sufficient to communicate, as well as to read with understanding data sheets, application notes, equipment manuals and descriptions of IT tools [K1_U7 (P6S_UK)].

Social competences:

Is ready to critically assess his/her knowledge; understands the need for and knows the possibilities of continuous training - improving professional, personal and social competence, is able to inspire and organize the learning process of others [K1_K1 (P6S_KK)].

Is ready to prioritise in order to complete a task defined by himself or others [K1_K4 (P6S_KO)].

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

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Formative assessment: formal coursework assignments (presentations, tests)

Summative assessment: credit

Programme content

1. Mathematical terms
2. Description of graphical / visual aids
3. General topics: computerization, computer and its uses
4. Technical topics: GPS, materials technology, Kevlar, jointing and fixing techniques
5. Industrial design; trends and features
6. Testing products in your own firm
7. Procedures and documentation in an engineering design
8. Description and interpretation of technical problems/faults
9. General topic: creative thinking

Course topics

1. Mathematical terms
2. Description of graphical / visual aids / line graphs
3. How to give a presentation
4. General topics: computerization, computer and its uses, computer and the modern world, digital divide
5. Technical topics: describing technical functions and applications (GPS), technical advantage, describing specific materials, environmental audit, specifying and describing properties (Kevlar), discussing quality issues, describing component shapes and features, explaining fixing techniques (mechanical and non-mechanical joints)
6. What is industrial design / industrial design as a profession
7. Trends in industrial design
8. Testing products in your own firm: types of tests / "Eat your own dog food" policy
9. Procedures and documentation in an engineering design: types of drawings / describing design stages and procedures / dimensions and precision
10. Describing types of technical problem / assessing and interpreting technical faults / describing the causes of faults
11. Discussing repairs and maintenance / discussing technical requirements / feasibility study
12. Describing improvements and redesigns
13. General topic: creative thinking / individual work / brainstorming session

Teaching methods

1. presentation, analysis of topics/problems shown on the board, lexical and grammatical tasks
2. discussion, teamwork, multimedia slide show, team project
3. student's individual work

Bibliography

Basic

1. Ibbotson, Mark. 2008. Cambridge English for Engineering. Cambridge: Cambridge University Press
Additional

1. Glendinning, Eric. 2009. Oxford English for Information Technology. Oxford: Oxford University Press

2. Williams, Ivor. 2007. English for Science and Engineering. Boston: Thomson

Breakdown of average student's workload

	Hours	ECTS
Total workload	120	5,00
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)	60	2,50