



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

English [S2IBio1E>JA]

### Course

Field of study

Biomedical Engineering

Year/Semester

2/3

Area of study (specialization)

Bionics and Virtual Engineering

Profile of study

general academic

Level of study

second-cycle

Course offered in

English

Form of study

full-time

Requirements

elective

### Number of hours

Lecture

0

Laboratory classes

0

Other (e.g. online)

0

Tutorials

30

Projects/seminars

0

### Number of credit points

2,00

### Coordinators

### Lecturers

### Prerequisites

Student should already have acquired language competence compatible with level B1 (CEFR). Student should also have the ability to use vocabulary and grammatical structures required on the high school graduation exam with regard to productive and receptive skills. Additionally, the student should be able to work individually and in a group and use various sources of information and reference works.

### Course objective

Advancing students' language competence towards at least B2 level (CEFR). Development of the ability to use academic and field specific language effectively in both receptive and productive language skills. Improving the ability to understand field specific texts and to function effectively on an international market and in a daily basis situations.

### Course-related learning outcomes

Knowledge:

5. Anatomy
6. Biomechatronics
7. Prosthetics
8. Artificial Heart
9. Cochlear Aids

10. Medical imaging
11. Targeted drug delivery systems.

#### Skills:

As a result of the course, the student is able to:

1. Give a talk/presentation on field specific and popular science topic (in English), and discuss general and field specific issues using an appropriate linguistic and grammatical repertoire
2. Express basic mathematical formulas and interpret data presented on graphs/diagrams
3. Formulate a text in English on a selected field specific topic

#### Social competences:

As a result of the course, the student is able to communicate effectively in a field specific/professional area, and to give a successful presentation in English. The student is also able to recognize and understand cultural differences in a professional and private conversation, and in a different cultural environment.

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

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The knowledge acquired during classes is verified by at least two pre-announced tests per semester. Each test consists of questions (multiple choice and open questions) with different points. Passing threshold is 60%. Additionally, once a year, students prepare a presentation on a selected field related topic and receive points for class activity.

### Programme content

5. Anatomy
6. Biomechatronics
7. Prosthetics
8. Artificial Heart
9. Cochlear Aids
10. Medical imaging
11. Targeted drug delivery systems

### Course topics

none

### Teaching methods

Vocabulary exercises, multimedia presentations, audiovisual materials, discussion of issues with examples on the blackboard, solving lexical and grammar exercises, integration and language games, discussion panels, pair/team work, individual student work (reading comprehension, listening comprehension).

### Bibliography

#### Basic

Ibbotsen, M. 2008. Cambridge English for Engineering. Cambridge: University Press.

Ciecierska, J. / Jenike, B. 2010. English for Medicine, Warszawa: PZWL

#### Additional

Grzeżożek, M. / Starmach, I. 2004. English for environmental engineering, Kraków: Politechnika Krakowska

Grussendorf, M. 2008. English for Presentations, EDU

Hanf, B. 2001. Angielski w technice, Lektor Klett (Pons)

#### Internet sources:

[www.howstuffworks.com](http://www.howstuffworks.com)

[www.wikipedia.org](http://www.wikipedia.org)

[www.ted.com](http://www.ted.com)

## Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	20	1,00