



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Specialist English

### Course

Field of study

Chemical and process engineering

Area of study (specialization)

Bioprocesses and biomaterials engineering

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

1/1

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

### Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

60

### Number of credit points

3

### Lecturers

Responsible for the course/lecturer:

Dorota Żarnowska M.Sc. eng

Responsible for the course/lecturer:

### Prerequisites

The already acquired language competence compatible with level B2 (CEFR)

The ability to use general and field specific vocabulary, and grammatical structures required on the first level of studies

The ability to work individually and in a group; the ability to use various sources of information and reference works.

### Course objective

1. Advancing students' language competence towards the level at least B2+ (CEFR).
2. Development of 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

#### Knowledge

As a result of the course, the student ought to acquire field specific vocabulary related to the following issues:

1. Electrolysis
2. Organic chemistry, the unique properties of carbon, alkanes, alkenes
3. Hydrocarbon structure and isomerism, chemical reactions of alkanes and alkenes
4. Energy changes in chemical reactions,
5. Rates of reaction
6. Catalysts
7. Biopharmaceuticals

and also define and explain notions, phenomena and processes connected with them.

K\_W03, K\_W06, P7S\_WG

#### Skills

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

- give a talk on field specific or popular science topic (in English)
- discuss general and field specific issues using an appropriate linguistic and grammatical repertoire,
- formulate a text in English where he/she explains/describes a selected field specific topic, understand and analyze international, field specific literature
- give a presentation of his/her engineering thesis

K\_U01, K\_U03, K\_U06, P\_7SUK

#### 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.

He/she is able to recognize and understand cultural differences in a professional and private conversation, and in a different cultural environment.

K\_K01, K\_K03, K\_K06, P\_7SKK



### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

- Formative assessment: tests during academic year (written and oral) presentations
- Summative assessment: credit

### Programme content

1. Electrolysis
2. Organic chemistry, the unique properties of carbon, Alkanes, Alkenes,
3. Hydrocarbon structure and isomerism, chemical reactions of alkanes and alkenes,
4. Energy
5. Energy changes in chemical reactions, rates of reactions
6. Catalysts
7. Biopharmaceuticals
8. Individual presentations of students' engineering theses

### Teaching methods

work with texts, discussion, team work, translation, films, individual written and oral deliverance, individual meetings with students, homework analysis, Moodle platform exercises...

### Bibliography

Basic

Richard Harwood and Ian Lodge, Cambridge IGCSE Chemistry, Coursebook, Fourth edition, 2014, Cambridge University Press , (IGCS)

Urszula Kamińska, English for Biotechnology, 2016, Publishing House, Gdańsk University of Technology

Additional

Richard Harwood and Ian Lodge, Cambridge IGCSE Chemistry, Workbook, Fourth edition, 2014, Cambridge University Press , (IGCS -W)

Gallagher, Rose Marie and Ingram, Paul. 2011. Complete Chemistry. Oxford: Oxford University Press



### Breakdown of average student's workload

	Hours	ECTS
Total workload	120	3,0
Classes requiring direct contact with the teacher	60	2,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	60	1,0

<sup>1</sup> delete or add other activities as appropriate