



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

German language [S1IChiP1>JN1]

### Course

Field of study

Chemical and Process Engineering

Year/Semester

1/1

Area of study (specialization)

–

Profile of study

general academic

Level of study

first-cycle

Course offered in

niemiecki

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 Joanna Skrobala

joanna.skrobala@put.poznan.pl

### Lecturers

### Prerequisites

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

### Course objective

Advancing students' language competence towards at least level B2 (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 (familiarizing students with basic translation techniques). 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:

- the states of matter

- separating and purifying mixtures
  - atoms and molecules, the structure of the atom, electron arrangements in atoms
  - the periodic table of elements, properties of atoms in chosen groups, trends in groups and periods and to be able to define and explain associated terms, phenomena and processes.
- k\_w03, k\_w04, p6s\_wg

#### Skills:

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

- give a talk on field specific or popular science topic (in german), and discuss general and field specific issues using an appropriate linguistic and grammatical repertoire,
- express basic mathematical formulas and to interpret data presented on graphs/diagrams,
- formulate a text in german where he/she explains/describes a selected field specific topic.

k\_u01, k\_u02, k\_u04, k\_u05, p6s\_uk

#### 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 german.

the student is able to recognize and understand cultural differences in a professional and private conversation, and in a different cultural environment.

k\_k03, p6s\_kr

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Learning outcomes presented above are verified as follows:

Formative assessment: tests during academic year (written and oral), presentations

Summative assessment: credit

### Programme content

Substances-Reactions

The Periodic Table of Elements

Atoms

### Course topics

The states of matter, differences between solids, liquids and gases

Separating and purifying mixtures

Atoms and molecules, the structure of the atom, electron arrangements in atoms

The Periodic Table of Elements, properties of atoms in chosen groups, trends in groups and periods

### 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

Steinmetz, M./Dintera, H.: Deutsch für Ingenieure, Springer Verlag, 2014

Chemie. Das Basiswissen der Chemie, Charles E. Mortimer Verlag, Thieme 2010

Additional

Fearns, A./Buhlmann, R.: Technisches Deutsch für Ausbildung und Beruf, Verlag Europa-Lehrmittel, 2013

Buhlmann, R.: Hinführung zur naturwissenschaftlich-technischen Fachsprache NTF. Chemie. Hueber Verlag

### Breakdown of average student's workload

	Hours	ECTS
Total workload	125	5,00
Classes requiring direct contact with the teacher	65	2,60
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	60	2,40