



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

German language [S1FT2>JNIEM1]

### Course

Field of study

Technical Physics

Year/Semester

2/3

Area of study (specialization)

–

Profile of study

general academic

Level of study

first-cycle

Course offered in

Polish

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

4,00

### Coordinators

mgr Joanna Skrobala

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### 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:

-areas of physics

- basics of chemistry
  - basics of electrical engineering
- and to be able to define and explain associated terms, phenomena and processes

#### 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.

#### 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.

### 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

Describing and analyzing statistics and mathematical operations

An introduction to the German language in the context of studying technical physics, with particular emphasis on vocabulary and phrases related to physics, mathematics and engineering.

Describing and analyzing statistics and mathematical operations.

Define and explain terms, phenomena and processes basics of chemistry and physics

Define and explain terms basics of electrical engineering

### Course topics

Mechanics and thermodynamics: issues related to the motion of bodies, forces and energy, principles of thermodynamics and their application in the design of machinery and technical equipment.

### 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 View, Wiesbaden 2014

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

Additional:

Jarosz, A., Jarosz, J.: Deutsch für Profis. Branża mechaniczna

Maenner, D.: Prüfungstraining telc Deutsch B1+ Beruf, Cornelsen Verlag, Berlin 2012

online: DEUMA Deutsch im Maschinenbau, 2004

### Breakdown of average student's workload

	Hours	ECTS
Total workload	100	4,00
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)	40	1,50