COURSE DESCRIPTION CARD - SYLLABUS

Course name
German [S1Cybez1>JNIEM4]

Course

Field of study
Cybersecurity

Year/Semester
2/4

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
30

Projects/seminars
0

Number of credit points

2,00

Coordinators

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Lecturers

Prerequisites

Students should demonstrate language skills at the B1 level, according to the Common European Framework of Reference for Languages (CEFR). This includes knowledge of grammatical structures and the general vocabulary required for the basic 'matura' exam (upper secondary school leaving examination) in German, covering both productive and receptive skills. In terms of skills, they are expected to effectively use various information sources, work well in a team, and engage in self-directed learning. Furthermore, regarding social competencies, students should exemplify honesty, responsibility, empathy, perseverance, intellectual curiosity, appropriate personal conduct, respect for others, and an openness to cultural diversity.

Course objective

The course objectives are to: 1. Elevate students' language proficiency to a minimum of B2 according to the Common European Framework of Reference for Languages (CEFR). 2. Develop the ability to effectively use both general academic language and specialised terminology pertinent to cybersecurity, encompassing all four language skills. 3. Enhance skills in working with specialised technical texts. 4. Refine the ability to navigate the international job market and everyday situations, including honing presentation and academic writing skills.

Course-related learning outcomes

Knowledge:
1. Have a general vocabulary in German at the B2 level according to the Common European Framework of Reference for Languages (CEFR) and specialised terminology related to selected areas of cybersecurity. [K1_W00A]
2. Know the essential grammatical structures required for describing and translating phenomena and processes associated with these fields. [K1_W00B]

Skills:
Students:
1. Can search, analyse, and integrate information from various sources in German, critically assess it, and effectively formulate and justify their opinions on the subject [K1_U01]
2. Can deliver a presentation in German on a specialised cybersecurity science topic or a popular science subject, and speak on general and technical topics using specialised terminology and an appropriate range of general vocabulary and grammatical structures [K1_U12]
3. Can express basic mathematical operations in German and interpret data presented in a diagram or graph [K1_U12]
4. Can compose a text in German explaining or describing a selected specialised topic from the field of cybersecurity [K1_U13]
5. Demonstrate language skills in German that meet the criteria for the B2 level according to the Common European Framework of Reference for Languages (CEFR) [K1_U14]

Social competences:
Students:
1. Recognise the importance of proficiency in German communication for effectively sharing knowledge and opinions about engineering, technological achievements, and the computer science and IT-specialist profession with the wider society. [K1_K03]
2. Notice and adapt to cultural differences in behaviour and both professional and private communication in English within diverse cultural contexts. [K1_K03]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Formative Assessment:
1. Short control tests (e.g., assessing vocabulary or grammar)
2. Short written assignments
3. Presentations or oral statements on topics related to specialist German
4. Self-assessment or peer assessment in pairs or small groups
Summative Assessment:
1. Final tests (written or oral)
2. Final project or presentation on a selected topic from the field
3. Assessment of class participation and contribution to group tasks
4. B2-level foreign language exam
General Assessment Criteria:
1. Linguistic accuracy, including the use of specialist vocabulary and terminology
2. Ability to present and logically convey information and arguments
3. Analysis and interpretation of source materials
4. Active participation in classes and interaction with other participants
The course completion rules and the exact passing thresholds will be communicated to students at the beginning of the semester through the university’s electronic systems and during the first class meeting.Earning at least 50% of the possible points is a prerequisite for passing.

Programme content

1. Artificial intelligence
2. Robotics
3. Digital exclusion
4. The future of computer science and artificial intelligence
5. Academic writing
6. Educational project
7. Preparation for the ACERT final exam

Course topics

1. Machine and deep learning
2. The impact of artificial intelligence on society, the economy and the environment
3. Evolution and types of robotics
4. Internet of Things
5. Autonomous robots and control strategies
6. Research directions and ethical considerations in robotics
7. Innovations in IT and AI and their impact on various aspects of our lives
8. Reasons for digital exclusion
9. Effects of digital exclusion
10. Groups affected by digital exclusion
11. Writing a description of the graph

Teaching methods

1. Communicative exercises, i.e., discussions, debates, simulations, role-plays
2. Listening comprehension, written exercises, and lexical and grammatical exercises
3. Exercises using multimedia technology, language games
4. Presentation of materials and text analysis
5. Individual work, pair work, small group activities and projects

Bibliography

Basic:
Eichstädt, T., Spieker, S. (2024). 52 Stunden Informatik (2. Auflage). Springer Vieweg
Steinmetz, M., Dintera, H. (2014). Deutsch für Ingenieure. Springer Vieweg

Additional:
Becky, U., Bewer, F., Fernandes, N., Hensch, J., Liske, M., Thommes, J. (2018). Einfach zum Studium! (3. Auflage). telc GmbH
Drenkert, P., Pinzhoffer, G., Grzunefeld, A. (2013). Uni Deutsch 2 Training Hörverstehen. Booksbaum
Gerling, R., Gerling, S. (2022) IT-Sicherheit für Dummies. Wiley-VCH GmbH
Mathes, A. (2018). Uni? Sicher! Deutsch 3 (3. Auflage). Booksbaum
Morztz, U., Rodi, M., Rohrmann, L., Kaufmann, S. (2022). Linie 1 Beruf B2. Ernst Klett Sprachen
Gerhard, C., Pohlschmidt, A., Schmitz, H., Schwieger, B. (2022). Aspekte Beruf B2. Ernst Klett Sprachen
Kärchner-Ober, R. (2020). Im Beruf neu Fachwortschatztrainer Technik. Hueber Verlag
Nissen, K. (2018). Grammatiktraining Deutsch für B2. telc gGmbH

Breakdown of average student's workload

	Hours	ECTS
Total workload	57	2,00
Classes requiring direct contact with the teacher	32	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	25	1,00