COURSE DESCRIPTION CARD - SYLLABUS

Course name
Global competencies [S1Cybez1>KG]

Course

Field of study
Cybersecurity

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
16

Laboratory classes
0

Other
0

Tutorials
0

Projects/seminars
24

Number of credit points

3,00

Coordinators

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Lecturers

Prerequisites

none

Course objective

The objective of the course is to: • Introduce global challenges and intercultural competencies in an engineering environment. • Develop skills for effective communication and collaboration in international teams. • Prepare students for decision-making in the context of cultural diversity and global ethical standards. • Enhance project management skills in multicultural teams.

Course-related learning outcomes

Knowledge:
• A student understands fundamental models of cultural diversity and their impact on teamwork. [K1_W21]
• A student recognizes global technical challenges and their significance in the context of sustainable development. [K1_W21]
• A student is familiar with the principles of professional ethics in a global environment. [K1_W21]

Skills:
• Can effectively communicate in multicultural teams. [K1_U15]
• Is able to manage cultural differences and conflicts in teamwork. [K1_U15]
• Can successfully complete an engineering project in a global context, considering cultural diversity. [K1_U15]
• Is aware of the necessity of planning and carrying out lifelong learning. [K1_U16]

Social competences:
• Understands the importance of cultural diversity in the professional environment. [K1_K03]
• Is aware of their role in addressing global technical challenges. [K1_K05]
• Recognizes the responsibility for decision-making in projects conducted in an international environment. [K1_K02]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

1. Knowledge: A written test assessing understanding of cultural models, professional ethics, and global technical challenges.
2. Skills: Evaluation of a team project and the presentation of results, considering intercultural aspects.
In each form of the course assessment, the grade depends on the number of points the student earns relative to the maximum number of required points. Earning at least 50% of the possible points is a prerequisite for passing. The relationship between the grade and the number of points is defined by the Study Regulations. Additionally, 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 (in each form of classes).

Programme content

The course "Global Competencies" aims to prepare engineering students for working in an international environment by developing communication, intercultural, and teamwork skills in global project teams. The course focuses on key aspects of working in a multicultural setting, including cultural diversity, business etiquette across different world regions, and global technical and engineering challenges. Theoretical classes are complemented by a practical team project, allowing students to apply their acquired knowledge in realistic scenarios.

Course topics

I. Introduction to Global Competencies (4x45 min)
1. The Importance of Global Competencies in Engineering
• Definition and scope of global competencies.
• The role of globalization in engineering and technology.
2. Cultural Aspects of International Collaboration
• Cultural diversity: introduction to models (e.g., Hofstede, Trompenaars).
• Stereotypes, biases, and their impact on teamwork.
• Principles of intercultural communication.
II. Communication and Collaboration in International Teams (4x45 min)
1. Fundamentals of Effective Communication in Multicultural Teams
• Active listening and conflict resolution techniques.
• Managing differences in work and communication styles.
2. Project Collaboration
• Organizing work in international project teams.
• Virtual teams: tools and best practices.
III. Global Challenges and Engineering Ethics (8x45 min)
1. Global Technical and Engineering Challenges
• Sustainable development: environmentally friendly technologies.
• Global energy challenges and digitalization.
2. Professional Ethics in a Global Context
• Universal values and local ethical norms.
• Social responsibility of engineers in a global environment.

IV. Team Project
1. Project Implementation in an International Context
• Working in teams on a project addressing a global technical challenge.
• Considering cultural, ethical, and communication differences in project execution.
2. Presentation of Results
• Preparing and delivering a project presentation while applying intercultural communication principles.

Teaching methods

• Lectures online incorporating discussions and case study analysis.
• Team projects utilizing tools for collaboration in international environments.

Bibliography

Basic:
1. "The Culture Map: Breaking Through the Invisible Boundaries of Global Business" by Erin Meyer. First edition, published in 2014 by PublicAffairs, New York. ISBN-13: 978-1610392501.
publicaffairsbooks.com
2. "Global Engineering Ethics" edited by Heinz Luegenbiehl and Rockwell Clancy. Published in 2017 by Butterworth-Heinemann. ISBN-13: 978-0128112199.
gale.com
3. "Riding the Waves of Culture: Understanding Diversity in Global Business" by Fons Trompenaars and Charles Hampden-Turner. Third edition, published in 2012 by McGraw-Hill Education, New York. ISBN-13: 978-0071774660.

Additional:
1. Educational materials prepared by the instructors.

Breakdown of average student's workload

	Hours	ECTS
Total workload	80	3,00
Classes requiring direct contact with the teacher	40	1,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	40	1,50