POZNAN UNIVERSITY OF TECHNOLOGY

COURSE DESCRIPTION CARD - SYLLABUS

Course name
Information safety culture [S2IBiJ1-JiEwBP>KBI]

Course

Field of study	Year/Semester
Safety and Quality Engineering	1/2
Area of study (specialization)	Profile of study
Quality and Ergonomics in Work Safety	general academic
Level of study	Course offered in
second-cycle	polish
Form of study	Requirements
full-time	elective

Number of hours

Lecture	Laboratory classes	Other (e.g. online)
15	0	0
Tutorials	Projects/seminars	
0	15	

Number of credit points

2,00

Coordinators	Lecturers
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Prerequisites

The student has basic knowledge of occupational security and information and information systems; he/she is able to recognize cause-effect relationships in the area of broadly understood security. The student is aware of the importance of a high security culture in the process of ensuring communication security

Course objective

To impart knowledge of the culture of information security necessary for the proper design, management and improvement of security systems, and to develop skills for solving security problems. To raise awareness of the risks of information security in an environment of information overload and accelerated development of information and communication technologies, with a particular focus on qualitative and ergonomic considerations of occupational security.

Course-related learning outcomes

Knowledge:
1. The student has in-depth knowledge of the economic, legal, ethical, social and psychological aspects taken into account in professional activity in the area of communication conditions in safety engineering, quality, ergonomics and occupational safety [K1_W10].

2. The student knows in-depth the principles of information flow and communication specific to the area of organizational security management [K1_W15].

Skills:
1. The student is able to communicate on issues specific to safety engineering, quality, ergonomics and occupational safety, is able to adapt the form of communication to a diverse audience, and is able to debate and participate in the debate on safety in the broad sense [K1_U11].
2. The student is able to interact with others in teamwork to solve a problem in the field of social communication, specific to the field of safety engineering, quality, ergonomics and safety, as well as to take leadership roles in these teams [K1_U13].

Social competences:
1. The student correctly identifies and resolves dilemmas related to security in the broadest sense, understands the need to make the public aware of the need to form a high culture of information security and counteract disinformation [K1_K02].
2. The student is ready to perform tasks related to the management of communication in the organization in a safe and ethical manner, to urge others to adhere to the principles of professional ethics and to develop professional values in the field of social communication [K1_K05].

Methods for verifying learning outcomes and assessment criteria
Learning outcomes presented above are verified as follows:

formative assessment:
Lecture: knowledge is verified by short colloquia after the first and third teaching units on the solution of a problem task. Credit threshold: 51%.
Project: skills and social competencies are verified by giving partial grades, resulting from the successive parts of the project presented on the due date. Credit threshold: 51%.
summative assessment:
Lecture: knowledge is verified through a summative test on basic concepts and problems in the area of information security. Passing threshold: 51%.
Project: the average of the partial grades of the substantive assessment of the project + the grade for the editing level. Passing threshold: 51%.
Grading scale:
91-100 5
81-90 4,5
71-80 4
61-70 3.5
51-60 3

Programme content

Lecture: The 21st century as the age of information. Communication as a tool in the security process. Culture in society. Culture of the organization. Work culture. Safety culture. Study of work safety culture in the enterprise, diagnosis of its level and possibilities for improving work safety culture. Social potential for safety. The role of the individual, the role of the group, the role of the employer, the role of the OSH service in the work process. Work techniques (individual/team). Emotions and motivation in/for work. OHS communication, education and training. Gamification in OSH training. Factors and elements that shape safety culture at work. Identification of unsafe behavior and analysis of accident incidents and actions to improve safety awareness and behavior. Social competencies necessary in information security processes: emotional competence, ethical sensitivity, interpersonal communication. Communication at the operational level: the ability to argue, persuade, resolve conflicts, conduct discussions, make presentations. Communication in difficult situations. Communicating about disaster, victims, death of loved ones. Social support in traumatic stress reduction. Risk management in information security the process of risk management in information security and its activities, risk estimation, risk handling,acceptable risk, residual risk, risk monitoring and review, methods of assessing the effectiveness of safeguards in information security). Security culture in an information saturation environment. Information culture in an information warfare environment. Formation of information security culture. The role of the media in the process of forming information security culture. The risk of infodemia.
Project: preparation of a project entitled How to counter infodemia in the work environment?

Guidelines for the project. Editorial requirements. Analysis of the theoretical assumptions for the project. Research problem and research questions. Selection of the research method and technique. Implementation of the various stages of the project.

Teaching methods

Lecture: multimedia presentation illustrated with examples, informative lecture, conversational lecture. The lecture is conducted using distance learning techniques in a synchronous mode. Acceptable platforms: eMeeting, Zoom, Microsoft Teams.
Project: multimedia presentation illustrated with examples given on the blackboard and the performance of project tasks.

Bibliography

Basic:
1. Sadłowska-Wrzesińska J., Znaczenie komunikacji interpersonalnej w procesie kształtowania wysokiej kultury bezpieczeństwa pracy, w: Kunas M. (red.)., BPM vs. HRM, Seria: Zarządzanie procesami w teorii i praktyce, Zeszyt nr 4, Szczecin, 2016.
2. Sadłowska-Wrzesińska J., Kultura bezpieczeństwa pracy. Rozwój w warunkach cywilizacyjnego przesilenia, Aspra, Warszawa, 2018.
3. Batorowska H., Kultura bezpieczeństwa informacyjnego w środowisku walki o przewagę informacyjną. Wydawnictwo Libron, Kraków 2021.
2. Nejman Ż., Sadłowska-Wrzesińska J., The use of information and communication technologies in the process of introducing incentive schemes. Informatyka Ekonomiczna - 2019, nr 4(54), s. 46-59

Additional:
1.Sadłowska-Wrzesińska J. (red.), Bezpieczeństwo XXI wieku. Szanse - Zagrożenia - Perspektywy. Aspekty bezpieczeństwa pracy. Wydawnictwo Naukowe Silva Rerum, Poznan 2020.
2. Babik, Ekologia informacji a bezpieczeństwo człowieka i informacji we współczesnym świecie. [w:] Walka informacyjna. Uwarunkowania-Incydenty-Wyzwania, H. Batorowska (red.), UP, Kraków 2017, s.160-169.

Breakdown of average student's workload

	Hours	ECTS
Total workload	60	2,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	30	1,00