COURSE DESCRIPTION CARD - SYLLABUS

Course name

Information security

Course

Field of study

Safety Engineering

Year/Semester

2/4

Area of study (specialization)

Profile of study

general academic

Level of study

First-cycle studies

Course offered in

Polish

Form of study

part-time

Requirements

Number of hours

Lecture

10

Laboratory classes

10

Other (e.g. online)

Tutorials

Projects/seminars

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

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Responsible for the course/lecturer:

Prerequisites

Student has knowledge of information, information technology, computer science and management.

Student is able to use the Internet souces, can obtain information, also in foreign languages studied by her/him at the university.

Student can establishes contacts in the World Information Society.

Course objective

The course aims at development of students' understanding of basic knowledge of information security

and the ability to choose security measures and information protection, and in total - using all this for their intensive participation in the global information society.

Course-related learning outcomes

Knowledge

1. Has knowledge of threats to the circulation of information in all its forms of manifestation and how to minimize these risks without falling into information inactivity.

2. Has knowledge of typical engineering information security technologies.

3. Knows techniques for defending the circulation of information.

4. Know and understand the basic concepts and principles in the field of copyright protection, information security and intellectual property protection in a market economy

Skills

1. Is able to acquire, integrate, and interpret information from literature, databases and other carefully selected sources.

2.Can use various techniques to communicate in a professional environment and in other environments.

3. Can use the technical equipment protecting information.

4. Can create a well-documented study of problems in the field of information flow in Polish and English.

Social competences

1. As proved in the classroom, can win the national audience over to information security standards and, in some cases, already the international audience as well.

2. Has awareness of responsibility for his/her own work and willingness to comply with the principles of teamwork, and shares responsibility for the tasks performed.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The knowledge presented in the lecture is verified by assessing the students' activity during the lectures and one 45-minute colloquium carried out during the last lecture. The test consists of 5-6 open questions. Final issues on the basis of which questions are prepared will be given to students during lectures.

Skills achieved in the laboratory are verified based on the tasks performed during the class.

Programme content

Terminology and classification of secrets. Legal basis in information preservation, secrets legally preserved. Essential modules in Information Security Management. Information Security Politics. Generating, processing and storage of documents in information and communication systems. Principles

of availability to information - threatens and shortcomings. Security devices and requirements in information preservation. Administrative, technical and physical data security.

Teaching methods

1. Lecture: multimedia presentation, illustrated with examples.

2. Laboratory exercises: practical tasks performed by students based on the presented instructions.

Bibliography

Basic

1. Stokłosa J. i innni, Ochrona danych i zabezpieczenia w systemach teleinformatycznych, Wydawnictwo Politechniki Poznańskiej 2003

2. Anderson R., Inżynieria zabezpieczeń, Wydawnictwo Naukowo - Techniczne 2005

3. PN-EN ISO/IEC 27002:2017-06, Technika informatyczna -- Techniki bezpieczeństwa -- Praktyczne zasady zabezpieczania informacji. PKN, 2018

4. PN-EN ISO/IEC 27001:2017-06, Technika informatyczna -- Techniki bezpieczeństwa -- Systemy zarządzania bezpieczeństwem informacji -- Wymagania, PKN, 20180

Additional

1. Liderman K., Bezpieczeństwo informacyjne, Wydawnictwo Naukowe PWN, 2017

2. Ustawa z dnia 29 sierpnia 1997 r. o ochronie danych osobowych (Dz. U. nr 133, poz. 883)

3. Ustawa z dnia 5 sierpni 2010 r. o ochronie informacji niejawnych (Dz. U. nr 182, poz. 1228)

Breakdown of average student's workload

	Hours	ECTS
Total workload	60	2
Classes requiring direct contact with the teacher	20	1
Student's own work (literature studies, preparation for laboratory classes, preparation for tests)	40	1