COURSE DESCRIPTION CARD - SYLLABUS

Course name
Internship [S1Cybez1>PRAKT]

Course

Field of study
Cybersecurity

Year/Semester
3/6

Area of study (specialization)
–

Profile of study
general academic

Level of study
first-cycle

Course offered in
Polish

Form of study
full-time

Requirements
compulsory

Number of hours

Lecture
0

Laboratory classes
0

Other
160

Tutorials
0

Projects/seminars
0

Number of credit points

6,00

Coordinators

dr hab. inż. Mariusz Żal
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Lecturers

Prerequisites

At the start of this course, the student should have basic knowledge, skills, and social competences acquired through the Cybersecurity study program, specifically in the area of fundamental and core subjects.

Course objective

Gaining practical knowledge of issues related to the field of study.

Course-related learning outcomes

Knowledge:
1. Has general knowledge of the lifecycle, design, and operation of attack-resistant software-based IT systems; understands their principles of operation. [K1_W09]
2. Possesses basic knowledge of IT and telecommunications project management. [K1_W18]
3. Has basic knowledge of establishing, managing, operating, and developing a business related to the acquired qualification. [K1_W19]
4. Understands the threats faced by modern civilization, which widely relies on digital services, and is familiar with the latest development trends related to the studied field. [K1_W20]

5. Possesses basic knowledge necessary to understand the social, ethical, economic, environmental, legal, and other non-technical aspects of engineering activities. [K1_W21]
6. Has fundamental knowledge of patents and legal regulations. [K1_W22]

Skills:
1. Is able to use appropriately selected methods and tools, including advanced information and communication technologies. [K1_U01]
2. Can perform a critical analysis and evaluation of the functioning of existing solutions used in software, data processing, as well as computer systems and networks, using appropriately selected methods and tools. [K1_U09]
3. Based on available documentation, specifications, and standards, can design and implement an application using high-level programming languages. [K1_U10]
4. Based on technical documentation and applicable standards, using appropriate methods, tools, and components, can build, configure, and launch a typical system or computer network that meets cybersecurity requirements. [K1_U11]
5. Can prepare and deliver a presentation in Polish and a foreign language on a topic related to the field of study, communicate using specialized terminology, and present and justify different opinions and viewpoints. [K1_U12]
6. Is capable of planning and organizing both individual and team work (including developing and executing a work schedule to meet deadlines), applies occupational health and safety principles, and is able to work in interdisciplinary and multicultural teams. [K1_U15]

Social competences:
1. Is able to think and act entrepreneurially in the field of cybersecurity. [K1_K04]
2. Is aware of the importance of individual work and the necessity of adhering to professional ethics; is ready to comply with team work principles, take responsibility for jointly executed tasks, and uphold the achievements and traditions of the profession. [K1_K05]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

A report on the course of the internship certified by the internship supervisor. A certificate of internship completion issued by the hosting organization. A questionnaire describing the achieved learning outcomes.

Programme content

Training in the practical knowledge of topics related to the field of study.

Course topics

Training in occupational health and safety as well as fire safety regulations. Familiarization with the applicable work regulations and conditions for protecting state and official secrets. Introduction to the structure and functioning of the company (institution). Implementation of an individual internship program. Preparation of a report on the course of the internship.

Teaching methods

Teaching methods should be adapted to the individual internship program.

Bibliography

Basic:
1. Regulamin studenckich praktyk zawodowych w Politechnice Poznańskiej. Załącznik do Zarządzenia Nr 11 Rektora PP z dnia 29 marca 2023 r. (RO/III/11/2023)
2. Regulamin studiów stacjonarnych i niestacjonarnych pierwszego i drugiego stopnia uchwalony przez Senat Akademicki Politechniki Poznańskiej.

Additional:
1. Obwieszczenie Ministra Gospodarki, Pracy i Polityki Społecznej z dnia 28 sierpnia 2003 r. w sprawie ogłoszenia jednolitego tekstu rozporządzenia Ministra Pracy i Polityki Socjalnej w sprawie ogólnych

przepisów bezpieczeństwa i higieny pracy. Dz.U. 2003 nr 169 poz. 1650.

Breakdown of average student's workload

	Hours	ECTS
Total workload	160	6,00
Classes requiring direct contact with the teacher	160	6,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	0	0,00