



Syllabus Course Program



Legal regulation of cybersecurity

Specialty

125 – Cybersecurity and information protection

Institute

Educational and Scientific Institute of Computer Science and Information Technology

Educational program

Cybersecurity

Department

Cybersecurity (328)

Level of education

Bachelor's level

Course type

Special (professional), Mandatory

Semester

2

Language of instruction

English

Lecturers and course developers

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Candidate of economic sciences, associate professor of the department of cybersecurity of National Technical University "Kharkiv Polytechnic Institute".

The author of more than 30 publications: of them 3 monographs in co-authorship and 1 handbook with a neck. Leading lecturer in the disciplines: "Intellectual property of security systems", "Legal regulation of cybersecurity", "Strategic communications in conditions of hybrid warfare", "Fundamentals of systems theory and system analysis".

[More about the lecturer on the department's website](#)

General information

Summary

The educational discipline "Legal regulation of cybersecurity" is a mandatory educational discipline. The study of the discipline is aimed at the skills and competencies to determine the place and role of cybersecurity in the overall system of national security, legal regulation of the state and principles of ensuring cybersecurity of the individual, society and the state, necessary for further work and to teach them to apply methods and means of effective and safe handling of information independently from its origin and type in conditions of widespread use of modern information technologies.

Course objectives and goals

Formation of students' theoretical knowledge on the basics of strengthening the quality of security sector management with the help of effective and efficient security provision in conditions of democratic supervision and control.

Format of classes

Lectures, workshops, consultations, self-study. Final control - test.

Competencies

GC1. Ability to apply knowledge in practical situations.

GC2. Knowledge and understanding of the subject area and understanding of professional activity.

GC5. Ability to learn and master modern knowledge.

GC6. The ability to realize own rights and responsibilities as a member of society, to realize the values of a civil (free democratic) society and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen in Ukraine.

GC7. Ability to make decisions and act in accordance with the principle of inadmissibility of corruption and any other manifestations of dishonesty.

Learning outcomes

LO3. Apply the principle of inadmissibility of corruption and any other manifestations of dishonesty in professional activity.

LO4. Organize own professional activity, choose optimal methods and ways of solving complex specialized tasks and practical problems in professional activity, evaluate their effectiveness.

LO5. Analyze, argue, make decisions when solving complex specialized tasks and practical problems in professional activity, which are characterized by complexity and incomplete determination of conditions, be responsible for the decisions made.

LO6. Adapt to new conditions and technologies of professional activity, predict the end result.

LO7. Apply and adapt information and coding theories, mathematical statistics, numbers, cryptography and steganography, signal processing and transmission, etc., principles, methods and concepts of cybersecurity and information protection in training and professional activity.

LO-6. Critically understand the main theories, principles, methods and concepts in education and professional activity.

LO-7. Act on the basis of the legislative and regulatory framework of Ukraine and the requirements of relevant standards, including international ones in the field of information and/or cyber security.

LO8. Apply knowledge and understanding of mathematics and physics in professional activity, formalize the objectives of the subject area of cybersecurity and protection of information, formulate their mathematical production and choose a rational method of solution.

LO9. To know and apply the legislation of Ukraine and international requirements, practices and standards for the purpose of conducting professional activity in the field of cybersecurity and information protection.

Student workload

The total volume of the course is 120 hours (4 ECTS credits): lectures - 32 hours, workshops - 16 hours, self-study - 72 hours.

Course prerequisites

Introduction to the specialty. Introductory practice, Information security of the state.

Features of the course, teaching and learning methods, and technologies

In the course of teaching the discipline, the teacher uses explanatory-illustrative (informational-receptive) and reproductive teaching methods. Presentations, conversations, and master classes are used as teaching methods aimed at activating and stimulating the educational and cognitive activities of applicants.

Program of the course

Topics of the lectures

Topic 1. Concept, subject, method and place in the information law system of Ukraine.

The concept of information law as a field of law. Conceptual approaches to the formation of the content of information law. Subject and methods of information law. Principles of information law.

Sources of information law.

Topic 2. Information society: concepts, basic principles of development in Ukraine, relationship with information culture and information security.

Information society and information civilization: concepts, positive and negative aspects. Concept and essence of informatization. Basic principles of information society development in Ukraine. Information policy at the current stage. Information security: concepts, types. Concept of information culture.

Topic 3. Informational legal relations: concept, content, types.

The concept of informational legal relations and their content. Subject and objects of informational legal relations. Concepts, legal signs and types of information. Legal status of information as an object of civil rights. Information as an object of ownership. The content of the subjective right to information. Subjects of informational legal relations. Classification of informational legal relations.

Topic 4. Information activity: concepts, types.

The concept of information activity. Main directions and types of information activities. Information activity of state authorities. Coverage of the activities of state authorities and local self-government bodies in Ukraine.

Topic 5. Legal regulation of print mass media, information agencies, publishing, library and archival business and state statistics in Ukraine.

Print mass media (press) in Ukraine: legal status, state registration, editorial and publishing activity, state support and social protection of journalists. Information agencies: concepts, features of creation and registration, creation and distribution of their products. Library activity in Ukraine: general principles, library system, rights and responsibilities of readers. Archival activity in Ukraine: National archival fund and system of archival institutions. Publishing business in Ukraine: organization, subjects, state registration. Book Chamber of Ukraine. Legal regulation of state statistics in Ukraine.

Topic 6. Legal regime of information with limited access.

Concepts and types of information with limited access about a person. Protection of personal data. Protection of confidential information that is the property of the state (official information). State secret in Ukraine.

Topic 7. Liability for offenses in the field of information relations.

Concepts and types of offenses in the information sphere. Civil offenses in the information sphere. Disciplinary responsibility in the field of informational legal relations. Administrative responsibility for offenses in the information sphere. Criminal liability for crimes in the information sphere. Information law sanctions contained in separate acts of the legislation of Ukraine.

Topics of the workshops

Topic 1. Concept, subject, method and place in the information law system of Ukraine.

Topic 2. Information society: concepts, basic principles of development in Ukraine, relationship with information culture and information security.

Topic 3. Informational legal relations: concept, content, types.

Topic 4. Information activity: concepts, types.

Topic 5. Legal regulation of print mass media, information agencies, publishing, library and archival affairs and state statistics in Ukraine.

Topic 6. Legal regime of information with limited access.

Topic 7. Liability for offenses in the field of information relations.

Topics of the laboratory classes

Not provided for in the curriculum.

Self-study

A student's independent work is one of the forms of organization of learning, the main form of mastering educational material in free time from classroom training. During independent work, students study lecture material, do individual homework, prepare for tests, tests and exams. Students are also recommended additional materials (videos, articles) for self-study and analysis.

Non-formal education

Within the framework of non-formal education, according to the relevant Regulation (<http://surl.li/pxssv>), the educational component or its individual topics may be taken into account in the

case of independent completion of professional courses/trainings, civic education, online education, vocational training, etc.

In particular, certain topics of this component can be taken into account in case of successful completion of the following CISCO courses:

Discovering Entrepreneurship, Engaging Stakeholders for Success

<https://www.netacad.com/catalogs/learn?category=course>.

Course materials and recommended reading

Basic literature:

1. About the media: Law of Ukraine edition dated 01.01.2024 No. 2849-IX // VVR of Ukraine.
<https://zakon.rada.gov.ua/laws/show/2849-20#n2349>
2. On state secrets: the Law of Ukraine, edition of 01.01.2024 No. 3855-XII // VVR of Ukraine.
<https://zakon.rada.gov.ua/laws/show/3855-12#Text>
3. About banks and banking activity: Law of Ukraine, edition dated 01.01.2024 No. 2121-III // VVR of Ukraine.
<https://zakon.rada.gov.ua/laws/show/2121-14#Text>
4. On the protection of personal data: Law of Ukraine edition dated 10.27.2022 No. 2297-VI // VVR of Ukraine.
<https://zakon.rada.gov.ua/laws/show/2297-17#Text>
5. On operational and investigative activity: Law of Ukraine, edition of 31.03.2023 No. 2135-XII // VVR of Ukraine.
<https://zakon.rada.gov.ua/laws/show/2135-12#Text>
6. Civil Code of Ukraine: Law of Ukraine edition of 30.01.2024 No. 435-IV // VVR of Ukraine.
<https://zakon.rada.gov.ua/laws/show/435-15#Text>
7. On cloud services: Law of Ukraine, edition of 12.27.2023 No. 2075-IX // VVR of Ukraine.
<https://zakon.rada.gov.ua/laws/main/2075-20#Text>
8. On state support of the media, guarantees of professional activity and social protection of journalists: Law of Ukraine edition dated 03.31.2021 No. 540/97-BP // VVR of Ukraine.
<https://zakon.rada.gov.ua/laws/show/540/97-%D0%B2%D1%80#Text>
9. About libraries and library affairs: Law of Ukraine, edition of 01.01.2022 No. 32/95-BP // VVR of Ukraine.
<https://zakon.rada.gov.ua/laws/show/32/95-%D0%B2%D1%80#Text>
10. On the publishing business: Law of Ukraine, edition dated 12.31.2023 No. 318/97-BP // VVR of Ukraine.
<https://zakon.rada.gov.ua/laws/show/318/97-%D0%B2%D1%80#Text>
11. On the mandatory copy of documents: Law of Ukraine, edition of 31.03.2023 No. 22-23, Article 199 // VVR of Ukraine.
<https://zakon.rada.gov.ua/laws/show/595-14#Text>
12. On the national archival fund and archival institutions: Law of Ukraine edition dated 07.02.2023 No. 3814-XII // VVR of Ukraine.
<https://zakon.rada.gov.ua/laws/show/3814-12#Text>
13. On scientific and scientific-technical activity: Laws of Ukraine edition dated 04.01.2024 No. 848-VIII // VVR of Ukraine.
<https://zakon.rada.gov.ua/laws/show/848-19#Text>
14. On access to public information: Laws of Ukraine edition dated 08.10.2023 No. 2939-VI // VVR of Ukraine.
<https://zakon.rada.gov.ua/laws/show/2939-17#Text>
15. On the appeal of citizens: Laws of Ukraine edition dated 12.31.2023 No. 393/96-BP // VVR of Ukraine.
<https://zakon.rada.gov.ua/laws/show/393/96-%D0%B2%D1%80#Text>

Additional literature:

16. Yevseyev S.P. Cyber security: modern protection technologies. / Evseev S.P., Ostapov S.E., Korol O.G. // Study guide for students of higher educational institutions. Lviv: "New World-2000", 2019. - 678. - Access mode:
<http://ns2000.com.ua/wp-content/uploads/2019/11/Kiberbezpeka-suchasni-tekhnologii-zakhystu.pdf>
17. Information security. Textbook / V. V. Ostroukhov, M. M. Prysiazhnyuk, O. I. Farmagey, M. M. Chekhovska, etc.; under the editorship V. V. Ostroukhova - K.: Lira-K Publishing House, 2021. - 412 p.
<https://lira-k.com.ua/preview/12867.pdf>
18. Synergy of building cybersecurity systems: monograph / S. Yevseyev, V. Ponomarenko, O. Laptiev, O. Milov and others. - Kharkiv: PC TECHNOLOGY CENTER, 2021. - 188 p.
<https://drive.google.com/drive/folders/1wOTN8N-GBG006AnvjQHU1SdBl3xCaUju>

19. Models of socio-cyber-physical systems security: monograph / S. Yevseiev, Yu. Khokhlachova, S. Ostapov, O. Laptiev and others. - Kharkiv: PC TECHNOLOGY CENTER, 2023. - 168 p.
<https://drive.google.com/drive/folders/1wOTN8N-GBGO06AnvjQHU1SdBl3xCaUju>
20. Modeling of security systems for critical infrastructure facilities: monograph / S. Yevseiev, R. Hryshchuk, K. Molodetska, M. Nazarkevych and others. - Kharkiv: PC TECHNOLOGY CENTER, 2022. - 196 p.
<https://drive.google.com/drive/folders/1wOTN8N-GBGO06AnvjQHU1SdBl3xCaUju>.

Assessment and grading

Criteria for assessment of student performance, and the final score structure

Points are awarded according to the following ratio:

- workshops: 40% of the semester grade;
- independent work: 10% of the semester grade;
- control work: 10% of the semester grade;
- test: 40% of the semester grade.

Grading scale

Total points	National	ECTS
90–100	Excellent	A
82–89	Good	B
75–81	Good	C
64–74	Satisfactory	D
60–63	Satisfactory	E
35–59	Unsatisfactory (requires additional learning)	FX
1–34	Unsatisfactory (requires repetition of the course)	F

Norms of academic integrity and course policy

The student must adhere to the Code of Ethics of Academic Relations and Integrity of NTU "KhPI": to demonstrate discipline, good manners, kindness, honesty, and responsibility. Conflict situations should be openly discussed in academic groups with a lecturer, and if it is impossible to resolve the conflict, they should be brought to the attention of the Institute's management.

Regulatory and legal documents related to the implementation of the principles of academic integrity at NTU "KhPI" are available on the website: <http://blogs.kpi.kharkov.ua/v2/nv/akademichna-dobrochesnist/>

Approval

Approved by

17.01.2025



Head of the department
Serhii YEVSEIEV

17.01.2025



Guarantor of the educational program
Serhii YEVSEIEV