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**Federal State Autonomous Educational Institution of Higher Education
«Peoples' Friendship University of Russia named after Patrice Lumumba»
(RUDN University)**

Higher School of Management

(name of the main educational unit-developer of the basic higher education programme)

COURSE SYLLABUS

Ensuring cybersecurity of a business entity

(name of discipline/module)

Recommended by the Didactic Council for the Education Field of:

38.04.01 «ECONOMICS»

(code and name of the area of training/specialty)

The study of the discipline is conducted as part of the professional programme of higher education:

«Compliance control in the activities of organizations»

(name (profile/specialization) of the basic higher education programme)

1. COURSE GOAL(S)

The goal of studying the discipline «Ensuring cybersecurity of a business entity» - formation of a systematic understanding of foreign experience in organizing and managing internal control and audit in the economic security system, as well as developing practical skills in the field of organizing and managing compliance control.

The main objectives of studying the discipline are:

Study:

basic concepts in the field of security of the Internet of things, cyber-physical systems as part of critical information infrastructure objects (CII);

main threats, vulnerabilities, risks in the field of security of the Internet of things, cyber-physical systems as part of critical information infrastructure objects;

technologies for network security threats, as well as mechanisms to counter network attacks;

basic requirements of regulatory documents for the protection of critical information infrastructure facilities; design features

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the discipline “Ensuring cybersecurity of a business entity” is aimed at developing in students the following competencies (parts of competencies):

Table 2.1. The list of competencies acquired by students in the course of the discipline (outcomes of the discipline)

Code	Competency	Indicators of Competency Achievement (within this discipline)
GC-1	Able to search, critically analyze problem situations based on a systematic approach, and develop an action strategy	GC-1.1. Analyzes the task, highlighting its basic components; GC-1.2. Identifies and ranks the information required to solve a given problem; GC-1.3. Searches for information to solve a given problem using various types of requests; GC-1.4. Offers options for solving a problem, analyzes the possible consequences of their use; GC-1.5. Analyzes ways to solve problems of ideological, moral and personal nature based on the use of basic philosophical ideas and categories in their historical development and socio-cultural context
GC-3	Able to organize and manage the work of a team, developing a team strategy to achieve the goal	GC-3.1. Defines his (her) role in the team based on the strategy of cooperation to achieve the goal; GC-3.2. Formulates and takes into account in his/her activities the behavioral characteristics of groups of people identified depending on the goal; GC-3.3. Analyzes the possible consequences of personal actions and plans his/her actions to achieve a given result;

Code	Competency	Indicators of Competency Achievement (within this discipline)
		GC-3.4. Exchanges information, knowledge and experience with team members; GC-3.5. Argues his/her point of view regarding the use of ideas of other team members to achieve the goal; GC-3.6. Participates in team work to complete assignments.
PC-4	Able to develop and generate reporting documents on the operation of the internal control system of an economic entity	PC-4.1 Able to assess the possible consequences of changes in the accounting policies of an economic entity, including their impact on its future activities
PC-5	Capable of monitoring and coordinating the activities of internal control systems at all levels of management of an economic entity	PC-5.1 Able to analyze and interpret the norms and requirements of regulatory legal acts on internal control of the organization's activities, regulating issues of independence and principles of ethics

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

Discipline “Ensuring cybersecurity of a business entity” refers to the compulsory part/part formed by participants in educational relations of block B1 of the basic higher education programme.

Table No. 3.1 shows the previous and subsequent disciplines aimed at developing the competencies of the discipline in accordance with the matrix of competencies of the basic higher education programme (BP HE).

As part of the BP HE, students also master other disciplines and/or practices that contribute to achieving the planned results of mastering the discipline “Ensuring cybersecurity of a business entity”.

Table 3.1. The list of the higher education programme components that contribute to the achievement of the expected learning outcomes as the disciplines results

Code	Competency	Previous disciplines/modules, internships*	Subsequent disciplines/modules, internships*
GC-1	Able to search, critically analyze problem situations based on a systematic approach, and develop an action strategy	Microeconomics (advanced course), Macroeconomics (advanced course), Internal control, International and Russian standards in the field of internal control and audit, Methods for comprehensive analysis of the activities of a business	undergraduate internship

Code	Competency	Previous disciplines/modules, internships*	Subsequent disciplines/modules, internships*
		entity, Managing the effectiveness of compliance control of a business entity, Risk management and compliance	
GC-3	Able to organize and manage the work of a team, developing a team strategy to achieve the goal	Microeconomics (advanced course), Macroeconomics (advanced course), Econometrics (advanced course), Internal control, Methods for comprehensive analysis of the activities of a business entity, International and Russian standards in the field of internal control and audit, Methods for comprehensive analysis of the activities of a business entity, Compliance performance management control of a business entity, Risk management and compliance, Assessment of corruption risks of a business entity, Tax compliance	undergraduate internship
PC-4	Able to develop and generate reporting documents on the operation of the internal control system of an economic entity	Microeconomics (advanced course), Macroeconomics (advanced course), Econometrics (advanced course), Internal control, Methods for comprehensive analysis of the activities of a business entity, International and Russian standards in the field of internal control and audit, Methods for comprehensive analysis of the activities of a business entity, Compliance performance management control of a business entity, Risk management and compliance, Assessment of corruption risks of a	undergraduate internship

Code	Competency	Previous disciplines/modules, internships*	Subsequent disciplines/modules, internships*
		business entity, Tax compliance	
PC-5	Capable of monitoring and coordinating the activities of internal control systems at all levels of management of an economic entity	Microeconomics (advanced course), Macroeconomics (advanced course), Econometrics (advanced course), Internal control, Methods for comprehensive analysis of the activities of a business entity, International and Russian standards in the field of internal control and audit, Methods for comprehensive analysis of the activities of a business entity, Compliance performance management control of a business entity, Risk management and compliance, Assessment of corruption risks of a business entity, Tax compliance	undergraduate internship

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the discipline “Ensuring cybersecurity of a business entity “is ___3___ credit units.

Table 4.1. Types of academic work by periods of mastering the main programme of higher education for full-time education

Type of educational work		Total hours	Semesters	
			5	6
1.	<i>Contact work, academic hours</i>			
	Including:			
1.1.	Lectures (L)	25	9	16
1.2.	Other activities			
	Including:			
1.2.1.	Seminars (S)	34	18	16
	Practical exercises (PE))			3
	Of these in interactive form (IF)			
2.	<i>Independent work of students, academic hours</i>	33	9	24
	Including:			
2.1.	Calculation and graphic works			
2.2.	Course paper			
	<i>Other types of independent work</i>			

3.	<i>Control (exam/test with assessment), academic hours</i>	16		16
4.	Total workload (academic hours)	108	36	72
	Total workload (credit units)	3	1	2

5. COURSE OF DISCIPLINE

Table 5.1. Contents of the discipline (module) by type of academic work

Name of the discipline section	Contents of the section (topic)	Type of educational work*
Section 1. Cybersecurity: basic concepts and definitions	Cybersecurity (information security) of cyberphysical systems, cybersecurity in the Internet of Things: basic standards, concepts, definitions. Cyber-physical systems and the Internet of Things: an overview of the main issues related to cybersecurity; main threats and vulnerabilities in the field of cybersecurity.	L, S
Section 2. Network technologies and protocols: basic concepts and definitions	Network technologies and protocols – OSI model, security issues.	L, S
Section 3. Functional safety: basic concepts and definitions	Functional safety: basic standards, concepts and definitions.	L, S

- **L – lectures**
- **S- seminar classes**

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Equipment and technological support of the discipline

Classroom Type	Equipment of the Classroom	Specialized educational/laboratory equipment, software and materials for mastering the discipline (if necessary)
Lecture Hall	An auditorium for conducting lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations.	21 workstations: system unit P4 C2D/3160 MHz MB/ 320 GB/DVD±RW/ LCD monitor 19"+ 1 projector
Laboratory	An auditorium for conducting laboratory work, individual consultations, ongoing monitoring and intermediate certification, equipped with a set of specialized furniture	21 workstations: Celeron system unit /2600 MHz/1280 MB/ 40 GB/DVD ROM/ LCD

	and equipment.	monitor 17"+ 1 projector + WiFi access point
Colloquium	An auditorium for conducting seminar-type classes, group and individual consultations, ongoing monitoring and intermediate certification, equipped with a set of specialized furniture and technical means for multimedia presentations.	21 workstations: system unit P4 C2D/3160 MHz MB/ 320 GB/DVD±RW/ LCD monitor 19"+ 1 projector
Computer class	Computer class for conducting classes, group and individual consultations, ongoing monitoring and intermediate certification, equipped with personal computers (in the amount of ___ pcs.), a whiteboard (screen) and technical means for multimedia presentations.	21 workstations: Celeron system unit /2600 MHz/1280 MB/ 40 GB/DVD ROM/ LCD monitor 17"+ 1 projector + WiFi access point

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main Readings:

Principles of Information Security (MindTap Course List) Michael E. Whitman and Herbert J. Mattord

Additional Readings:

Basic Information Security Richard E. Smith (author)

Resources of the information and telecommunications network "Internet"

1. RUDN Library website – Access mode: <http://lib.rudn.ru/> - from RUDN desktop computers
2. University Library ONLINE – Access mode: <http://www.biblioclub.ru/>
3. LexisNexis. – Access mode: <http://www.lexisnexis.com/hottopics/Inacademic/>
4. Book collections of the SPRINGER publishing house. – Access mode: www.springerlink.com
5. RUDN University Bulletin – Access mode: <http://www.elibrary.ru/defaultx.asp>
6. Columbia International Affairs Online (CIAO) – Access mode: <http://www.ciaonet.org/>
7. Universal Databases East View. - Access mode: <http://online.ebiblioteka.ru/>
8. Full-text collection of Russian scientific journals –eLibrary.ru – Access mode: <http://elibrary.ru/defaultx.asp?>
9. Electronic library of the Grebennikov Publishing House». Grebennikon. – Access mode: <http://grebennikon.ru/>
10. International portal of electronic newspapers on socio-political topics. Library PressDisplay – Access mode: <http://library.pressdisplay.com>
11. Directories - sectoral and regional databases. Polpred.com. – Access mode: <http://www.polpred.com/>
12. On-line access to magazines. Information database on all branches of science and electronic delivery of documents. SwetsWise. – Access mode: <https://www.swetswise.com>

13. University of Chicago Press Journals: American Journal of Education. Comparative Education Review. – Access mode: <http://www.journals.uchicago.edu/action/showJournals?type=byAlphabet>
14. Books from Alpina Publishers. Current business literature. – Access mode: http://www.alpinabook.ru/books/online_biblioteka.php
15. Electronic library of literature on Russian history BIBLIOPHIKA – Access mode: <http://www.bibliophika.ru/>
16. Electronic library of dissertations – Access mode: <http://diss.rsl.ru/>
17. Search engines: Яндекс (yandex.ru), Google (google.ru)

1. Databases and search engines:

- electronic fund of legal and regulatory technical documentation <http://docs.cntd.ru/>
- Yandex search engine <https://www.yandex.ru/>
- Google search engine <https://www.google.ru/>

electronic sources:

- www.kommersant.ru – Kommersant website
- www.rbc.ru – RosBusinessConsulting website
- www.vedomosti.ru – Vedomosti website
- www.Int-comp.org/careers/a-career-in-compliance/ – website of the International Compliance Association

*Educational and methodological materials for independent work of students when mastering a discipline/module *:*

1. Course of lectures on the discipline “Ensuring cybersecurity of a business entity”.
2. Educational and methodological materials for students’ independent work are posted in accordance with the current procedure on the discipline page in the Telecommunication Educational Information System

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

Practical classes in the discipline “Compliance in the field of securities market regulation” serve to consolidate and assimilate the theoretical material of lectures and independent work of students with educational literature, as well as for ongoing monitoring of students’ knowledge in the discipline. Practical classes include topics and tasks that require deep theoretical mastery of the material and its practical application. A group discussion of these topics by students together with the teacher should lead to an understanding of the systemic relationships between the analyzed processes and phenomena in strategic management. Theoretical material is consolidated through economic and mathematical modeling of situational problems in microeconomics.

The main forms of practical training in the discipline “Compliance in the field of securities market regulation” should be considered:

- oral survey;
- scientific discussion;
- report;
- written solutions to problems;
- written solutions to tests;
- independent work (short quiz);
- written test (during the study period).

Due to the limited time for conducting seminar classes, it is advisable to combine different forms of training and control during the seminar.

The implementation of the course includes interactive lectures, practical classes (seminars) using multimedia equipment, preparation of independent creative works and their subsequent presentations, testing, group discussions on the topics of the course, and modern knowledge control technologies.

While studying the discipline, the student must listen to a course of lectures, complete the number of seminars provided for in the work programme, independently study some of the course topics and confirm his/her knowledge during control events.

The student’s job at the lecture is to understand the fundamentals of the discipline, briefly take notes on the material, and clarify issues that cause difficulties. Lecture notes are the basic teaching material along with the textbooks recommended in the main bibliography.

The main part of the lecture material is taught using multimedia, which facilitates the perception and memorization of the material. Presentations are available for downloading from the PFUR website and can be freely used by students for educational purposes.

The student is required to master all the topics provided for in the curriculum of the discipline. Certain topics and training issues are submitted for independent study. The student studies the recommended literature and briefly outlines the material, and clarifies the most complex issues that require clarification during consultations. The same should be done with sections of the course that were skipped due to various circumstances.

For an in-depth study of the issue, the student must familiarize himself with the literature from the additional list and specialized websites on the Internet. It is also recommended that students communicate on professional community forums.

Students independently study educational, scientific and periodical literature. They have the opportunity to discuss what they have read with teachers of the discipline during scheduled consultations, with other students at seminars, as well as at lectures, asking clarifying questions to the lecturer.

The independent work of masters is monitored by the leading teacher. Depending on the teaching methodology, the following forms of ongoing monitoring can be used: a short oral or written survey before the start of classes, written homework, essays, etc.

Approximate structure of a typical practical lesson:

1. Mass test of knowledge of definitions and formulas based on the material covered (last 1-2 lectures) using a written quiz for 5-10 minutes. on separate sheets.
(ensures 100% coverage of students in the group; stimulates the systematic development of formulas and definitions)
2. Checking written homework (problems and tests) with analysis on the board of the tasks that caused the greatest difficulty for 5-10 minutes. depending on the complexity. Grading.
(ensures students' interest in completing written homework and gaining practical problem-solving skills)
3. Oral survey on current material or 1 report within 10-20 minutes.
(in order to discuss the most complex theoretical issues and develop speaking skills)
4. Explanation of the methodology for solving problems and tests on a new topic by the teacher for 5-10 minutes.
(provides students with a new perspective on theoretical models of microeconomics, strengthens practical skills)
5. Independent solving of problems and tests on a new topic during the remaining time with analysis of the solution at the board.
(100% coverage of group students; mastering theoretical material while solving practical tasks; development of practical economic analysis skills; element of competition - who can solve it faster)
6. Summing up the seminar lesson: grading and handing out homework within 2-3 minutes.

Certification of students in the course “Compliance in the field of securities market regulation” is carried out according to a point-rating system:

The maximum number of points is 100.

Number of credits – 4.

The maximum number of points for completing each type of work:

1. survey – 20 points
2. fulfillment of homework – 20 points
3. work in class – 20 points
4. report – 10 points
5. intermediate CD – 10 points
6. final CD – 20 points;

An **unsatisfactory** grade is given on the form F(2); FX(2+).

The F(2) grade is given if the student scores less than 30 points, the FX(2+) grade is 31-50 points. The FX(2+) grade provides an opportunity to retake the exam or test.

A **satisfactory** grade is given on Form E(3); D(3+). A grade of E(3) is given if the student scores between 51 and 60 points. Grade D(3+) – subject to 61-68 points.

The grade «**good**» is given in Form C(4) provided that the student scores 69-85 points.

The **excellent** grade is on Form B(5); A(5+). A grade of B(5) is assigned if the student scores 86-94 points and indicates that all required course requirements have been met. Grade A(5+) - 95-100 points is given not only if all requirements are met, but also with the obligatory manifestation of a creative attitude to the subject, the ability to find original answers not contained in textbooks, the ability to work with sources contained in additional literature course, the ability to combine the knowledge gained in this course with knowledge of other disciplines.

Point-rating system	Traditional assessments of the Russian Federation	Ratings ECTS
95 – 100	Excellent – 5	A (5+)
86 – 94		B (5)
69 – 85	Good – 4	C (4)
61 – 68	Satisfactory – 3	D (3+)
51 – 60		E (3)
31 – 50	Unsatisfactory – 2	FX (2+)
0 – 30		F (2)
51 - 100	Passed	Passed

DEVELOPERS:

**Head of the Department of
Compliance and Controlling**



J. Ragulina

Position, educational department

Signature

name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

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HEAD OF HIGHER EDUCATION PROGRAMME:

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