МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
ХАРКІВСЬКИЙ НАЦІОНАЛЬНИЙ ЕКОНОМІЧНИЙ УНІВЕРСИТЕТ
ІМЕНІ СЕМЕНА КУЗНЕЦЯ

"ЗАТВЕРДЖУЮ"
Проректор з навчально-методичної роботи

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Каріна НЕМАШКАЛО

ІНТЕЛЕКТУАЛЬНА ВЛАСНІСТЬ

робоча програма навчальної дисципліни

Галузь знань	*12 Інформаційні технології*
Спеціальність	*125 Кібербезпека*
Освітній рівень	*перший (бакалаврський)*
Освітня програма	*Кібербезпека*

Статус дисципліни	*вибіркова*
Мова викладання, навчання та оцінювання	*англійська*

Завідувач кафедри
кібербезпеки та
інформаційних технологій　　_____　　Сергій ЄВСЕЄВ

Харків
2021

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
SIMON KUZNETS KHARKIV NATIONAL UNIVERSITY OF ECONOMICS

"APPROVED"
Vice-rector for educational and methodical work

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Karina NEMASHKALO

INTELLECTUAL PROPERTY

working curriculum of the academic discipline

Field of study   *12 Information technologies*
Specialisation   *125 Cybersecurity*
Degree   *first (bachelor's)*
Educational program   *Cybersecurity*

Discipline status   *selective*
Language of learning, teaching and assessment   *English*

Head of Department
cybersecurity and
information technology   *Serhii YEVSEIEV*

Kharkiv
2021

APPROVED
on the department *of Cyber Security and Information Technologies* conference
Protocol № 1 of 27.08.2021 p.

Developer:
Khvostenko V.S., PhD in Econimics, Associate Professor of the CIT Department

Sheet of updating and re-approval
of the working program of the academic discipline

Academic year	Date of the conference of the WCAD developer-department	Protocol #	Signature of the head of the department

Summary of the academic discipline:

In the whole world intellectual property is becoming more and more important, because the constant value of rights to intellectual products (intellectual capital) in the internal and external commodity circulation does not cease to increase. Practically, any commodity and any service, one way or another, as one of its components have intellectual property. International law of intellectual property constantly develops harmoniously in tandem with the development of techniques, technology, human knowledge and skills. Today the importance of intellectual property is greater than ever. Moreover, there is enough reason to believe that the value of intellectual property will continue to grow.

Recently in Ukraine we can observe a situation when certain new technologies, including information technologies, developed by Ukrainian scientists are recognized by other states, become their property, but Ukraine gets nothing from it. This is explained primarily by the lack of a clear understanding of the fact that the use of rights protection mechanisms. The sphere of intellectual property is a whole complex of rights and relations, from which it is impossible to separate any part without prejudice to all others. So, for example, copyright is connected with the right to trademarks, patent law very often collides with copyright and the like.

The modern engineer must have not only deep knowledge in the field of science and technology, but also the basics of legal protection of intellectual property, not giving up his scientific and technical achievement to others due to ignorance of the methods of its registration, protection and defense.

The object is the study of the basic provisions of international cooperation in the field of intellectual property and methodological foundations for the creation of industrial property objects at the level of inventions, utility models and industrial designs, patenting and licensing activities, etc.

The subject matter of the discipline is information about the rights and privileges of the authors of inventions, utility models, industrial designs, trademarks for goods and services, the content of patent documentation, the conditions for patent research, patent formulation and use of patent information, including the prediction of new technology.

The purpose of teaching the discipline is to master the necessary knowledge of the system of intellectual and industrial property in the inventive and patent-licensing activities, the methodological foundations of creating objects of industrial property and engineering psychology, patent rights protection, international cooperation in intellectual property, copyright and related rights, and patent information system; ability to use in practice the legal regulations in providing legal protection of scientific and technological achievements and creative products, conduct patent and information research in a particular area of technology, find analogues and draw up an application for an object of industrial property.

The result of studying the discipline is the acquisition of knowledge on the definition and use of the legislative field regarding intellectual property in professional activities.

Characteristics of the academic discipline

Year	2
Semester	3
Number of credits ECTS	5
Form of summary control	**examination**

Structure and logic scheme for the study of the discipline

Prerequisites	Postrequisites
Commercial law	Science of theory and practice of patenting
Patent science	

Competences and learning outcomes for the discipline

General competences	Learning results
Knowledge and understanding of the subject area and understanding of the profession.	– to act on the basis of the legislative and regulatory framework of Ukraine and the requirements of relevant standards, including international standards in the field of information and/or cybersecurity; – to prepare proposals for regulations to ensure information and/or cybersecurity; – to apply national and international information security and/or cybersecurity regulations to investigate incidents.
Ability to identify, set and solve problems of professional orientation.	– to act on the basis of the legislative and regulatory framework of Ukraine and the requirements of relevant standards, including international standards in the field of information and/or cybersecurity; – to prepare proposals for regulations to ensure information and/or cybersecurity.
Special (professional, subject) competences	**Learning results**
Ability to apply legislative and regulatory frameworks, as well as national and international requirements, practices and standards in order to carry out professional activities in the field of information and/or cybersecurity.	–to act on the basis of the legislative and regulatory framework of Ukraine and the requirements of relevant standards, including international standards in the field of information and/or cybersecurity; – to prepare proposals for regulations to ensure information and/or cybersecurity; – to implement processes based on national and international standards to detect, identify, analyze and respond to information and/or cybersecurity incidents; – to solve the problem of ensuring the continuity of business processes of the organization on the basis of the theory of risk; – to participate in the development and implementation of information security and/or cybersecurity strategies in accordance with the goals and objectives of the organization; – to address the tasks of providing and maintaining comprehensive information protection systems, and counteracting unauthorized access to information resources and processes in information and information and telecommunication (automated) systems according to established information and \or cyber security policies; – to apply national and international information security and/or cyber security regulations to investigate incidents.
Ability to use software and firmware complexes of information protection in information and telecommunication (automated) systems.	– to implement processes based on national and international standards to detect, identify, analyze and respond to information and/or cyber security incidents; – to address the tasks of providing and maintaining comprehensive information protection systems, and counteracting unauthorized access to information resources and processes in information and information and telecommunication (automated) systems according to the established information and / or cyber security policy.
Ability to ensure business continuity in accordance with established information and/or cybersecurity policies.	– to implement processes based on national and international standards to detect, identify, analyze and respond to information and/or cyber security incidents; – to address organizational business process continuity based on risk theory; – to participate in the development and implementation of information security and/or cyber security strategy in accordance with organizational goals and objectives; – to address the tasks of providing and maintaining

	comprehensive information protection systems, and counteracting unauthorized access to information resources and processes in information and information and telecommunication (automated) systems according to the established information and / or cyber security policy; – to apply national and international information security and/or cyber security regulations to investigate incidents; – to apply various classes of information security and/or cyber security policies based on risk-based access control to information assets.
Ability to protect information processed in information and telecommunications (automated) systems in order to implement the established policy of information and/or cybersecurity.	– to implement processes based on national and international standards to detect, identify, analyze and respond to information and/or cyber security incidents; – to participate in the development and implementation of information security and/or cyber security strategy in accordance with organizational goals and objectives; – to address the tasks of providing and maintaining comprehensive information protection systems, and counteracting unauthorized access to information resources and processes in information and information and telecommunication (automated) systems according to the established information and / or cyber security policy; – to apply national and international information security and/or cyber security regulations to investigate incidents; – to apply various classes of information security and/or cyber security policies based on risk-based access control to information assets.
Ability to implement and ensure the functioning of integrated information protection systems (sets of regulatory, organizational and technical means and methods, procedures, practical techniques, etc.).	– to implement processes based on national and international standards to detect, identify, analyze and respond to information and/or cyber security incidents; – address the tasks of providing and maintaining comprehensive information protection systems, and counteracting unauthorized access to information resources and processes in information and information and telecommunication (automated) systems according to the established information and / or cyber security policy.
Ability to implement incident management procedures, conduct investigations, and evaluate incidents.	– to implement processes based on national and international standards to detect, identify, analyze and respond to information and/or cyber security incidents; – to address organizational business process continuity based on risk theory; – to participate in the development and implementation of information security and/or cyber security strategy in accordance with organizational goals and objectives; – to address the tasks of providing and maintaining comprehensive information protection systems, and counteracting unauthorized access to information resources and processes in information and information and telecommunication (automated) systems according to the established information and / or cyber security policy; – to apply national and international information security and/or cyber security regulations to investigate incidents; – to apply various classes of information security and/or cyber security policies based on risk-based access control to information assets.
Ability to perform professional activities based on the implemented information and/or cybersecurity management system.	– to implement processes based on national and international standards to detect, identify, analyze and respond to information and/or cyber security incidents;

	– to address organizational business process continuity based on risk theory; – to participate in the development and implementation of information security and/or cyber security strategy in accordance with organizational goals and objectives; – to address the tasks of providing and maintaining comprehensive information protection systems, and counteracting unauthorized access to information resources and processes in information and information and telecommunication (automated) systems according to the established information and / or cyber security policy; – to apply national and international information security and/or cyber security regulations to investigate incidents; – to apply various classes of information security and/or cyber security policies based on risk-based access control to information assets.
Ability to monitor the functioning of information, information and telecommunications (automated) systems in accordance with established information and/or cybersecurity policy.	– to implement processes based on national and international standards to detect, identify, analyze and respond to information and/or cyber security incidents; – to apply national and international information security and/or cybersecurity regulations to investigate incidents.
Ability to analyze, identify and assess potential threats, vulnerabilities and destabilizing factors to information space and information resources in accordance with established information and/or cybersecurity policies.	– to implement processes based on national and international standards to detect, identify, analyze and respond to information and/or cyber security incidents; – to address organizational business process continuity based on risk theory; – to participate in the development and implementation of information security and/or cyber security strategy in accordance with organizational goals and objectives; – to address the tasks of providing and maintaining comprehensive information protection systems, and counteracting unauthorized access to information resources and processes in information and information and telecommunication (automated) systems according to the established information and / or cyber security policy; – to apply national and international information security and/or cyber security regulations to investigate incidents; – to apply various classes of information security and/or cyber security policies based on risk-based access control to information assets.

Program of academic discipline
Content module 1. Intellectual Property and the System of its Legal Protection
Subject 1. *The concept of intellectual property and its system of legal protection.*
Subject 2. *The legal nature of intellectual property rights*
Subject 3. *The main institutions of intellectual property law*
Subject 4. *The concept and characteristics of the object of copyright*
Subject 5. *Subjects of copyright. The rights of authors*
Subject 6. *Protection of copyright and related rights*

Content module 2: Basics of Patent Law
Subject 7. *General concepts of law and its systems. The concept, subject matter and principles of patent law*
Subject 8. *System of patent law sources and its connection with civil, administrative, commercial and criminal law*
Subject 9. *The objects of patent law.*

Subject 10. *The subjects of patent law*
Subject 11. *International system for the protection of industrial property*

The list of practical exercises, as well as the tasks for self-study are given in the table "Rating Plan for the academic discipline".

Teaching and lecturing methods

In the course of teaching the discipline teacher used explanatory-illustrative (informative-receptive) and reproductive teaching methods. Lectures (1-11), presentations (1-11) are used as teaching methods aimed at activating and stimulating educational and cognitive activity of the students.

The order of assessment of learning outcomes

The system of evaluation of formed competences of students takes into account the types of classes, which, according to the program of the discipline provide lectures and practical classes, as well as the performance of independent work. Assessment of formed competences of students is carried out on the cumulative 100-point system. Control activities include:

1) current control, carried out during the semester during lecture and laboratory classes and is assessed by the sum of the accumulated points (the maximum amount - 60 points; the minimum amount that allows the student to pass the exam - 35 points)

2) final / semester control, conducted in the form of a semester exam, in accordance with the schedule of the educational process.

The order of implementation of the current assessment of students' knowledge.

Assessment of student knowledge during lectures and practical classes is carried out according to the following criteria:

- analyze and legislative and normative acts;
- analyze the relations between the objects of intellectual property;
- use the theories and methods of protection of intellectual property rights in professional activity
- solve the problems of providing and supporting the acquisition of rights to intellectual property
- conduct patent and information searches.

The final control of knowledge and competences of students on the academic discipline is carried out on the basis of a semester exam, the task of which is to check the student's understanding of the program material in general, the logic and relationships between individual sections, the ability to creatively use the accumulated knowledge, the ability to formulate his attitude to a particular problem of the academic discipline, etc.

Lecture classes: the maximum number of points is 20 (lecture work – 12, express-questioning - 8).

Practical classes: the maximum number of points is 40 (defense of practical works - 20, control works - 20), and the minimum is 23.

Independent work: consists of the time, the applicant spends to prepare for the execution of laboratory works and to prepare for the exam in the discipline, in the flow chart points for this type of work are not allocated.

Final control: is held in view of the exam.

The exam ticket includes a program of the discipline and provides for the determination of the level of knowledge and the degree of mastery of competencies by students.

Each exam ticket consists of 3 practical situations (one stereotypical, one diagnostic and one heuristic task), which provide solutions to the typical professional tasks of a specialist in the workplace and allow you to diagnose the level of theoretical training of the student and his level of competence in the discipline. Assessment of each task on the examination ticket as follows: the first task is 20 closed-form test tasks, its performance is evaluated by 20 points; the second task is

devoted to the disclosure of the theoretical question, its performance is evaluated by 10 points; the third task - solving a situational problem, its performance is evaluated by 10 points.

The result of the semester exam is evaluated in points (the maximum number - 40 points, the minimum number of enrollment - 25 points) and put in the appropriate column of the examination "Record of progress".

A student should be considered attested, if the sum of points received by the results of the final / semester review of progress is equal or exceeds 60 The minimum possible number of points for the current and modular control during the semester - 35 and the minimum possible number of points gained at the exam - 25.

The final grade for the academic discipline is calculated taking into account the points received during the exam and the points received during the current control under the cumulative system. The summarized result in points for the semester is: "60 or more points - passed", "59 or fewer points - not passed" and is entered in the crediting "Record of progress" of the academic discipline.

The final assessment is made on a scale, in the table "Scale of assessment: national and ECTS".

The forms of assessment and distribution of points are given in the table "Rating Plan of academic discipline".

Scale of scores: national and ECTS

The sum of points for all types of learning activities	ECTS score	National scale score	
		for examination, course project (work), practice	for credit
90 – 100	A	excellent	
82 – 89	B	good	credited
74 – 81	C		
64 – 73	D	satisfactory	
60 – 63	E		
35 – 59	FX	not satisfactory	uncredited

Rating plan of the academic discipline

Subject	Forms and types of training		Assessment forms	Max score
Subject 1	*Auditory work*			
	Lecture	Lecture " *The concept of intellectual property and its system of legal protection.*"	Lecture work	2
Subject 2.	*Auditory work*			
	Lecture	Lecture " *The legal nature of intellectual property rights*"	Lecture work	1
	Practical session	Practical session №1 " *Rules for making and filing an application for invention and application for a utility model* "	practical task	
	Independent work			

	Questions and assignments for self-study	Search, selection and review of literary sources on a given topic. Preparation for practical work.		
Subject 3	*Auditory work*			
	Lecture	Lecture " *The main institutions of intellectual property law"*	Lecture work	1
	Practical session	Practical session №2 " *Execution of formal examination of invention application. State fees and charges "*	Defense of practical works № 1	4
	Independent work			
	Questions and assignments for self-study	Search, selection and review of literary sources on a given topic. Preparation for practical work.		
Subject 4	*Auditory work*			
	Lecture	Lecture " *The concept and characteristics of the object of copyright "*	Lecture work	1
	Practical session	Practical session №3 " *Preparation and submission of an application for an industrial design "*	Defense of practical work №2	4
	Independent work			
	Questions and assignments for self-study	Search, selection and review of literary sources on a given topic. Preparation for practical work		
Subject 5	*Auditory work*			
	Lecture	Lecture *"Subjects of copyright. The rights of authors"*	Lecture work	1
			Express-questioning	4
	Practical session	Practical session №4. *"Trademark"*	Defense of practical work № 3	4
			Control work 1	10
Subject 6	*Auditory work*			
	Lecture	Lecture " *Protection of copyright and related rights"*	Lecture work	1
	Practical session	Practical session	Defense of practical work №4	4
	Independent work			
	Questions and assignments for self-study	Search, selection and review of literary sources on a given topic. Preparation for practical work.		
Subject 7	*Auditory work*			
	Lecture	Lecture " *General concepts of law and its systems. The concept, subject matter and principles of patent law"*	Lecture work	1

		Practical session	Practical session № 5. Copyright	practical task	
		Independent work			
		Questions and assignments for self-study	Search, selection and review of literary sources on a given topic. Preparation for practical work.		
Subject 8		*Auditory work*			
		Lecture	Lecture *" System of patent law sources "*	Lecture work	1
		Practical session	Practical session	Defense of practical work № 5	4
		Independent work			
		Questions and assignments for self-study	Search, selection and review of literary sources on a given topic. Preparation for practical work.		
Subject 9		*Auditory work*			
		Lecture	Lecture *" The objects of patent law"*	Lecture work	1
		Practical session	Practical session	practical task	
		Independent work			
		Questions and assignments for self-study	Search, selection and review of literary sources on a given topic. Preparation for practical work.		
Subject 10		*Auditory work*			
		Lecture	Lecture *" The subjects of patent law "*	Lecture work	1
				Express-questioning	4
		Practical session	Practical session		
		Independent work			
		Questions and assignments for self-study	Search, selection and review of literary sources on a given topic. Preparation for practical work		
Subject 11		*Auditory work*			
		Lecture	Lecture *" International system for the protection of industrial property "*	Lecture work	1
		Practical session	Practical session	Control work 2	10
		Independent work			
		Questions and assignments for self-study	Search, selection and review of literary sources on a given topic. Preparation for practical work.		
Examination					40

Recommended Literature

Main

1. Website of the Institute of Intellectual Property. Information resources. - Access mode: http://www.iipl.ukrpatent.org.
2. Website "Copyright in Ukraine". - Access mode: http://copyright.ua.
3. Site of the patent law firm "Atilog". Blog. - Access mode: https://atilog.ua/blog/page/2/.
4. Website of the Ministry of Economic Development. - Access mode: http://me.gov.ua/Tags/DocumentsByTag?lang=uk-UA&id=bb27fb37-4305-4686-9ea0-995d1c10f028&tag=DerzhavnaSluzhbaIntelektualnoiVlasnosti
5. Site of distance learning of KhNEU, discipline "Intellectual Property" https://pns.hneu.edu.ua/course/view.php?id=5616.