



SCHOOL OF BUSINESS
AND MANAGEMENT OF
TECHNOLOGY OF BSU



Innovative ICT Education for Social-Economic Development (IESED)
574283-EPP-1-2016-1-LT-EPPKA2-CBHE-JP

INTELLECTUAL PROPERTY AND PROTECTION OF INFORMATION

Minsk 2017

1. COURSE PLAN

Year of study	Semester	Academic hours					Credits	Number of hours
		Total	Lecture	Practice/ seminar	Consultations	Independent work		
4	7	82	34	34	2	12	3	82 Full-time
4	7	82	10	10	2	60	3	82 Part-time

2. COMPETENCES

1. Analyze the prospects and directions of the development of information systems and technologies.
2. Apply basic scientific and theoretical knowledge to solve practical problem;
3. Build and optimize models of various systems and processes.
4. Generate new ideas focusing on creativity, critical thinking, communication and collaboration;
5. Work independently and in a team;

3. COURSE GOAL

The course goal is to form theoretical knowledge and practical skills in the field of intellectual property management and information protection among students for effective professional activity.

4. COURSE OUTCOMES

- to master the terminology and to show knowledge of the legislation, deal with intellectual property;
- to explain the process of patenting of intellectual property;
- to be able to count value of intellectual property and make connection between contract and monetization;
- to compare Belarus intellectual property laws to international with the focus EU country;
- to understand the problems of information security and reflect on the laws applied to information system.

5. COURSE CONTENT (full time)

Section number, topics, classes	Section number, topics, classes; list of issues to be studied	Number of academic hours				Form of knowledge control
		Lecture	Practical classes (seminar)	Consultations	Independent work	
1	2	3	4	5	6	7
1	Topic 1. Intellectual property management for the socio-economic development of society.	2	2	2		

Section number, topics, classes	Section number, topics, classes; list of issues to be studied	Number of academic hours				Form of knowledge control
		Lecture	Practical classes (seminar)	Consultations	Independent work	
1	2	3	4	5	6	7
1.1	The concept and the origin of intellectual property. Information and intellectual property as an economic resource of society.	0,5	0,5			Oral Interview, reports and presentations
1.2	National legislation of intellectual property relationship.	1	1			
1.3	Structure of state management of intellectual property. Government support for the creation and use the intellectual property for innovative economic development.	0,5	0,5			
2	Topic 2. Copyright and related rights.	4	4			
2.1	Copyright: concept, objects, subjects, protection.	1	1			Testing on paper or on the training portal (MOODLE)
2.2	The author's contract structure.	0,5	0,5			
2.3	The concept, origin and application of related rights. Objects and subjects of related rights.	1	1			
2.4	Management of property rights of authors and holders of related rights on a collective basis.	0,5	0,5			Oral Interview, individual practical tasks
2.5	Remuneration of copyright owners and related rights owners: regulation and settlement.	1	1			Written assignments on the training portal (MOODLE), Testing on paper or on a learning portal (MOODLE) on topics 1,2
3.	Topic 3. Industrial property.	4	4			
3.1	Objects and subjects of industrial property law and their classification.	0,5	0,5			Testing on paper or on the training portal (MOODLE)
3.2	Inventions as objects of industrial property, their types and criteria of patentability	1	1			
3.3	Useful models and industrial designs as objects of industrial property: patentability and protection.	0,5	0,5			
3.4	Integrated microcircuits topology as a protected object of industrial property: the concept and criteria of patentability.	0,5	0,5			
3.5	Selective achievements and peculiarities of their patent protection.	1	1			Oral Interview, reports and presentations
3.6	Peculiarities of legal protection of confidential information and rationalization proposals.	0,5	0,5			
4	Topic 4. Means of individualization as protected objects of industrial property	2	2		2	
4.1	Trademarks and service marks: content, purpose and criteria of patentability.	1	1			Testing on paper or on the training portal (MOODLE)
4.2	Geographical indications as a protected object	0,5	0,5			

Section number, topics, classes	Section number, topics, classes; list of issues to be studied	Number of academic hours				Form of knowledge control
		Lecture	Practical classes (seminar)	Consultations	Independent work	
1	2	3	4	5	6	7
	of intellectual property.					
4.3	Brand names: functions, registration, security.	0,5	0,5			Written assignments on the training portal (MOODLE), Testing on paper or on a learning portal (MOODLE) on topics 3,4
5.	Topic 5. Patenting of industrial property objects in the Republic of Belarus.	2	2		2	
5.1	National patent offices and their functions.	0,5	0,5			Oral Interview, individual practical tasks
5.2	Patent and intellectual property patenting procedure.	1	1			Written assignments on the training portal (MOODLE)
5.3	Maintenance of the patent and its termination.	0,5	0,5			Oral Interview
6.	Topic 6. Patent Information and Patent researches.	2	2		2	
6.1	Patent Information. Patent documentation and its standardization needs.	0,5	0,5			Oral Interview, reports and presentations
6.2	Patent research implementation	1	1			Written assignments on the training portal (MOODLE), Testing on paper or on a learning portal (MOODLE) on topics 5,6
6.3	Patent search types	0,5	0,5			
7.	Topic 7. The inclusion intellectual property in civil circulation.	2	4		2	
7.1	Ways of inclusion intellectual property objects into civil circulation and their accounting.	0,5	1			Oral Interview, individual practical tasks
7.2	Methods of calculation the value of intellectual property.	1	2			Written assignments on the training portal (MOODLE)
7.3	Analysis of the efficiency of the intellectual property using.	0,5	1			
8.	Topic 8. Commercial using of intellectual property.	4	4			
8.1	The main forms of commercial using of intellectual property.	1	1			Oral Interview, individual practical

Section number, topics, classes	Section number, topics, classes; list of issues to be studied	Number of academic hours				Form of knowledge control
		Lecture	Practical classes (seminar)	Consultations	Independent work	
1	2	3	4	5	6	7
8.2	License agreement and its types. The structure of the license agreement.	1	1			tasks
8.3	Remuneration for the transfer of rights to use objects of intellectual property: types and calculation.	2	2			Written assignments on the training portal (MOODLE), Testing on paper or on a learning portal (MOODLE) on topics 7,8
9.	Theme 9. Protection of holders of rights to intellectual property.	2	2		2	
9.1	Violation of intellectual property rights: essence and types.	0.5	0.5			Oral Interview
9.2	Administrative and criminal liability for violation of intellectual property rights.	1	1			Written assignments on the training portal (MOODLE)
9.3	Intellectual property rights protection organizations in the Republic of Belarus.	0.5	0.5			Oral Interview, reports and presentations
10.	Topic 10. Foreign experience of intellectual property management.	4	2			
10.1	Republic of Belarus in the system of international regulation of intellectual property relationship.	2	1			Oral Interview, reports and presentations
10.2	The system of protection of copyright and related rights in the countries of the European Union.	1	0.5			Oral Interview Written assignments on the training portal (MOODLE)
10.3	The system of patenting of industrial property in the countries of the European Union.	1	0.5			
11.	Topic 11. Basis of information security.	4	2			
11.1	The essence of information security and its modern concepts.	1	0.5			Oral Interview, individual practical tasks
11.2	The concept and classification of threats to information security.	1	0.5			
11.3	Infringers of information security and means used by them.	2	1			Testing on paper or on the training portal (MOODLE)
12.	Topic 12. Information security system.	2	4		2	
12.1	Methodological basis of information protection.	0.5	1			Oral Interview Testing on paper or on a learning portal (MOODLE) on topics 11,12, individual practical tasks
12.2	Mechanisms for ensuring the protection of information.	1	2			
12.3	Checking the security of the information system	0.5	1			

Section number, topics, classes	Section number, topics, classes; list of issues to be studied	Number of academic hours				Form of knowledge control
		Lecture	Practical classes (seminar)	Consultations	Independent work	
1	2	3	4	5	6	7
	Total	34	34	2	12	

6. COURSE CONTENT (part time)

Section number, topics, classes	Section number, topics, classes; list of issues to be studied	Number of academic hours				Form of knowledge control
		Lecture	Practical classes (seminar)	Consultations	Independent work	
1	2	3	4	5	6	7
1	Topic 1. Intellectual property management for the socio-economic development of society.	1	1		5	
1.1	The concept and the origin of intellectual property. Information and intellectual property as an economic resource of society.					Oral Interview, reports and presentations
1.2	National legislation of intellectual property relationship.					
1.3	Structure of state management of intellectual property. Government support for the creation and use the intellectual property for innovative economic development.					
2	Topic 2. Copyright and related rights.	1	1		5	
2.1	Copyright: concept, objects, subjects, protection.					Testing on paper or on the training portal (MOODLE)
2.2	The author's contract structure.					
2.3	The concept, origin and application of related rights. Objects and subjects of related rights.					
2.4	Management of property rights of authors and holders of related rights on a collective basis.					Oral Interview, reports and presentations
2.5	Remuneration of copyright owners and related rights owners: regulation and settlement.					Written assignments on the training portal (MOODLE),

Section number, topics, classes	Section number, topics, classes; list of issues to be studied	Number of academic hours				Form of knowledge control
		Lecture	Practical classes (seminar)	Consultations	Independent work	
1	2	3	4	5	6	7
						Testing on paper or on a learning portal (MOODLE) on topics 1,2
3.	Topic 3. Industrial property.	1,5	1		5	
3.1	Objects and subjects of industrial property law and their classification.					Testing on paper or on the training portal (MOODLE)
3.2	Inventions as objects of industrial property, their types and criteria of patentability					
3.3	Useful models and industrial designs as objects of industrial property: patentability and protection.					
3.4	Integrated microcircuits topology as a protected object of industrial property: the concept and criteria of patentability.					
3.5	Selective achievements and peculiarities of their patent protection.					Oral Interview, reports and presentations
3.6	Peculiarities of legal protection of confidential information and rationalization proposals.					
4	Topic 4. Means of individualization as protected objects of industrial property	0,5	0,5		5	
4.1	Trademarks and service marks: content, purpose and criteria of patentability.					Testing on paper or on the training portal (MOODLE), individual practical tasks
4.2	Geographical indications as a protected object of intellectual property.					
4.3	Brand names: functions, registration, security.					Written assignments on the training portal (MOODLE), Testing on paper or on a learning portal (MOODLE) on topics 3,4
5.	Topic 5. Patenting of industrial property objects in the Republic of Belarus.	1	1		5	
5.1	National patent offices and their functions.					Oral Interview, individual practical tasks
5.2	Patent and intellectual property patenting procedure.					Written assignments on the training portal

Section number, topics, classes	Section number, topics, classes; list of issues to be studied	Number of academic hours				Form of knowledge control
		Lecture	Practical classes (seminar)	Consultations	Independent work	
1	2	3	4	5	6	7
						(MOODLE)
5.3	Maintenance of the patent and its termination.					Oral Interview
6.	Topic 6. Patent Information and Patent researches.	0,5	0,5		5	
6.1	Patent Information. Patent documentation and its standardization needs.					Oral Interview, individual practical tasks
6.2	Patent research implementation					Written assignments on the training portal (MOODLE), Testing on paper or on a learning portal (MOODLE) on topics 5,6
6.3	Patent search types					
7.	Topic 7. The inclusion intellectual property in civil circulation.	1	1		5	
7.1	Ways of inclusion intellectual property objects into civil circulation and their accounting.					Oral Interview, individual practical tasks
7.2	Methods of calculation the value of intellectual property.					Written assignments on the training portal (MOODLE)
7.3	Analysis of the efficiency of the intellectual property using.					
8.	Topic 8. Commercial using of intellectual property.	1	1		5	
8.1	The main forms of commercial using of intellectual property.					Oral Interview, individual practical tasks
8.2	License agreement and its types. The structure of the license agreement.					
8.3	Remuneration for the transfer of rights to use objects of intellectual property: types and calculation.					Written assignments on the training portal (MOODLE), Testing on paper or on a learning portal (MOODLE) on topics 7,8
9.	Theme 9. Protection of holders of rights to intellectual property.	0,5	1		5	
9.1	Violation of intellectual property rights:					Oral Interview

Section number, topics, classes	Section number, topics, classes; list of issues to be studied	Number of academic hours				Form of knowledge control
		Lecture	Practical classes (seminar)	Consultations	Independent work	
1	2	3	4	5	6	7
	essence and types.					
9.2	Administrative and criminal liability for violation of intellectual property rights.					Written assignments on the training portal (MOODLE)
9.3	Intellectual property rights protection organizations in the Republic of Belarus.					Oral Interview, reports and presentations
10.	Topic 10. Foreign experience of intellectual property management.	1	1		5	
10.1	Republic of Belarus in the system of international regulation of intellectual property relationship.					Oral Interview, reports and presentations
10.2	The system of protection of copyright and related rights in the countries of the European Union.					Oral Interview Written assignments on the training portal (MOODLE)
10.3	The system of patenting of industrial property in the countries of the European Union.					
11.	Topic 11. Basis of information security.	0,5	0,5	1	5	
11.1	The essence of information security and its modern concepts.					Oral Interview, individual practical tasks
11.2	The concept and classification of threats to information security.					
11.3	Infringers of information security and means used by them.					Testing on paper or on the training portal (MOODLE)
12.	Topic 12. Information security system.	0,5	0,5	1	5	
12.1	Methodological basis of information protection.					Oral Interview, individual practical tasks.
12.2	Mechanisms for ensuring the protection of information.					Testing on paper or on a learning portal (MOODLE) on topics 11,12
12.3	Checking the security of the information system					
	Total	10	10	2	60	

7. THEORETICAL CONTENT

№	Topic number	Content
1	Topic 1. Intellectual property management for the socio-economic development of society.	The concept of intellectual property. Objects of intellectual property. National legislation regulating relations in the field of intellectual property. Information and intellectual property as an economical resource of society. The state structure of intellectual property management. Government support for the creation and use of intellectual property for innovative development of the economy.

№	Topic number	Content
2	Topic 2. Copyright and related rights.	The essence, principles and the origin of copyright. Objects of copyright and objects not protected by copyright. Subjects of copyright. Personal property and non-property rights of authors. The author's contract. The concept and sphere of related rights. Objects and subjects of related rights. The origin of related rights and their protection. Management of property rights of authors and holders of related rights on a collective basis. Remuneration of authors and owners of related rights.
3	Topic 3. Industrial property.	Objects and subjects of industrial property law, their classification. Service objects of industrial property. Inventions, their classification. Criteria for patentability: novelty, inventive level, industrial applicability. Description and formula of the invention. Useful models: the concept and criteria for the protection capacity. Industrial design: concept, types, criteria of patentability. Topology of integrated microcircuits as a protected object of industrial property: the concept and criteria of patentability. Selective achievements and peculiarities of their patent protection. Features of legal protection of secret information and rationalization proposals.
4	Topic 4. Means of individualization as protected objects of industrial property	Trademarks and service marks: content, purpose and criteria of patentability. Legal protection of geographical indications. Protection of trade names.
5	Topic 5. Patenting of industrial property objects in the Republic of Belarus.	National patent offices and their functions. The procedure of patenting. Application for a patent for various industrial property objects. Priority of invention, utility model, industrial design. Preliminary examination of application documentation. Patent examination of industrial property objects. Registration of industrial property objects and issuance of a patent. Refusal to issue a patent and appeal against a patent decision. Maintenance of a patent for industrial property. Patent fees. Termination of the patent. The recognition of a patent is not valid.
6	Topic 6. Patent Information and Patent researches.	Patent information and its using. Patent documentation and the needs for its standardization. Publications and databases of patent organizations. Patent researches (definition of a technical level of development of object of engineering, patentability, patent cleanliness). Patent search and its types (thematic, nominal, numbering).
7	Topic 7. The inclusion intellectual property in civil circulation.	The Ways to include intellectual property objects into civil circulation (application in the production process, participation in the authorized capital, assignment of rights, and transfer of use rights under a license). Methods of valuation of intellectual property objects. Accounting and analysis of the effectiveness of the intellectual property using at an enterprise.
8	Topic 8. Commercial using of intellectual property.	The main forms of the commercial using of intellectual property. The contract of assignment of rights to use objects of intellectual property. Types of licensing agreements for the use of intellectual property. License agreement: essence, types, structure. Calculation of remuneration for the transfer of rights to use objects of intellectual property under a license agreement.
9	Theme 9. Protection of holders of rights to intellectual property.	Violation of intellectual property rights and the emergence of unfair competition. Civil-law methods of protection of intellectual property rights holders. Administrative and criminal liability for violation of intellectual property rights. Pre-judicial and judicial procedures for resolving disputes in the field of intellectual property. Intellectual property rights protection organizations in the Republic of Belarus.
10	Topic 10. Foreign experience of intellectual property management.	The system of international regulation of intellectual property relations and its interaction with the national intellectual property management system (multilateral and bilateral treaties of various levels). The system of protection of copyright and related rights in the EU countries. The system of patenting of industrial property in the EU countries.
11	Topic 11. Basis of	The essence of information security. Conceptual basis of information security.

№	Topic number	Content
	information security.	Threats to information security: concept, types, sources. Violators of information security and models of their behavior. Means used by violators of information security and their types. Technical means of unauthorized receipt of information. Software tools for violation of information security. Computer viruses and antivirus programs.
12	Topic 12. Information security system.	Information security system and its elements. Methods and means of ensuring information security. Mechanisms and tools for protecting information. Audit of the security of the information system. Risk assessment.

8. PRACTICAL CONTENT

№	Topic number	Content
1	Topic 1. Intellectual property management for the socio-economic development of society.	1. The concept of intellectual property. 2. Objects and subjects of intellectual property. 3. National legislation regulating the relations in the field of intellectual property. 4. Information and intellectual property as an economical resource of society. 5. Structure state management of intellectual property. 6. Government support for the creation and use of intellectual property for innovative economic development.
2	Topic 2. Copyright and related rights.	1. The essence, principles and the origin of copyright. 2. Objects of copyright and objects not protected by copyright. Subjects of copyright. 3. Personal non-property and property rights of authors. 4. The author's contract. 5. The concept and the using of related rights. 6. Objects and subjects of related rights. The origin of related rights and their protection. 7. Management of property rights of authors and holders of related rights on a collective basis. 8. Remuneration of authors and owners of related rights
3	Topic 3. Industrial property.	1. Objects and subjects of industrial property law, their classification. 2. Service objects of industrial property. 3. Inventions, their classification. 4. Criteria for patentability: novelty, inventive step, industrial applicability. 5. Description and claims. 6. Utility models: the concept and criteria for protection. 7. Industrial design: concept, types, criteria of patentability. 8. Topology of integrated microcircuits as a protected object of industrial property: the concept and criteria of patentability. 9. Selective achievements and features of their patent protection. 10. Features of legal protection of undisclosed information and rationalization proposals.
4	Topic 4. Means of individualization as protected objects of industrial property	1. Trademarks and service marks: content, purpose and criteria of patentability. 2. Legal protection of geographical indications. 3. Protection of trade names.
5	Topic 5. Patenting of industrial property objects in the Republic of Belarus.	1. National patent offices and their functions. 2. The procedure for patenting. 3. The drawing up of a patent application for various industrial property objects. 4. Priority of invention, utility model, industrial design. 5. Preliminary examination of application documentation. 6. Patent expertise of industrial property objects. 7. Registration of industrial property objects and issuance of a patent. 8. Refusal to issue a patent and appeal against a decision of patent bodies. 9. Maintenance of a patent for industrial property. Patent fees. Termination of the patent. The recognition of a patent is not valid.
6	Topic 6. Patent Information and Patent	1. Patent information and its using. 2. Patent documentation and the need for its standardization. Publications and

№	Topic number	Content
	researches.	databases of patent organizations. 3. Patent studies (determination of the technical level of the development of the object of technology, patentability, patent purity). 4. Patent search and its types (thematic, nominal and numbering).
7	Topic 7. The inclusion of intellectual property in civil circulation.	1. Ways to include intellectual property objects into civil circulation (application in the production process, participation in the authorized capital, assignment of rights, transfer of rights under license). 2. Cost-based method for assessing the value of intellectual property. 3. Profitable method of valuation of objects of intellectual property. 4. Market method of valuation of objects of intellectual property. 5. Accounting for intellectual property in the enterprise.
8	Topic 8. Commercial use of intellectual property.	1. The main forms of commercial use of intellectual property. 2. The contract of assignment of rights to use objects of intellectual property. 3. Types of licensing agreements to use of intellectual property. 4. License agreement: essence, types, structure. 5. Calculation of remuneration for the transfer of rights to use objects of intellectual property under a license agreement.
9	Theme 9. Protection of holders of rights to intellectual property.	1. Violation of intellectual property rights and the emergence of unfair competition. 2. Civil-law methods of protection of intellectual property rights holders. 3. Administrative and criminal liability for violation of intellectual property rights. 4. Pre-judicial and judicial procedures for the resolving of litigations in the field of intellectual property. 5. Intellectual property rights protection organizations in the Republic of Belarus.
10	Topic 10. Foreign experience of intellectual property management.	1. System of international regulation of intellectual property relations. 2. Interaction of international organizations with the national system in the field of intellectual property management (multilateral and bilateral treaties of various levels). 3. System of protection of copyright and related rights in the EU countries. 4. The system of patenting of industrial property in the EU countries. 5. Responsibility for violation of intellectual property rights in the EU countries
11	Topic 11. Basis of information security.	1. The essence of information protection. 2. Conceptual basis of information security. 3. Threats to information security: the concept, types, sources. 4. Infringers of information security and models of their behavior. 5. Means used by violators of information security and their types. 6. Technical means of unauthorized receipt of information. 7. Software tools for violation of information security. 8. Computer viruses and antivirus programs.
12	Topic 12. Information security system.	1. Information security system and its elements. 2. Methods and means of ensuring the protection of information. 3. Mechanisms and tools for protecting information. 4. Audit of information system security and risk assessment.

9. LABORATORY CONTENT

№	Topic number	Content
not provided		

10. ASSIGNMENT FOR INDEPENDENT WORK

№	Topic	Content
1	Topic 1. Intellectual property management for the socio-economic development of society.	1. Study the section of the Civil Code of the Republic of Belarus concerning intellectual property. 2. Find information about the meaning of intellectual property for the innovative development of Belarus in the Internet and in literature.

		<p>3. Find information to prove that effective management of intellectual property can provide a competitive advantage to the firm.</p> <p><i>Control:</i> The results of the work should be presented in the form of an essay or a report.</p>
2	Topic 2. Copyright and related rights.	<p>1. Learn the rules of drawing up an author's contract.</p> <p>2. Study the example of author's contract and explain its contents.</p> <p>3. Study the terms of contracts between the author and the owners of related rights: sound recording companies, broadcasting organizations, film distribution (to choose from).</p> <p><i>Control:</i> Make a report with a presentation.</p>
3	Topic 3. Industrial property.	<p>1. Study the patent legislation of the Republic of Belarus.</p> <p>2. Find examples of confidential information in business and justify the need for its protection.</p> <p>3. On a practical example, to reveal the features of protection of breeding achievements: plant varieties, animal breeds, strains of bacteria, etc. (to choose from).</p> <p><i>Control:</i> the results should be formalized in the form of an essay.</p>
4	Topic 4. Means of individualization as protected objects of industrial property	<p>1. Explain the meaning of the trademark for business.</p> <p>2. Find examples of conflict situations in business and their solution related to violation of the trademark rights.</p> <p>3. Describe the process of registration of the company name in the Republic of Belarus</p> <p><i>Control:</i> The result should be prepared in the form of an essay or a presentation report.</p>
5	Topic 5. Patenting of industrial property objects in the Republic of Belarus.	<p>1. Study the procedure of patenting of industrial property in the Republic of Belarus.</p> <p>2. To get acquainted with the conditions of international protection of intellectual property rights.</p> <p>3. Describe the conditions for the extension and termination of the patent.</p> <p><i>Control:</i> the results should be presented in the form of a report with a presentation.</p>
6	Topic 6. Patent Information and Patent researches.	<p>1. Explain what is the patent information.</p> <p>2. Describe the procedure of finding the necessary patent information.</p> <p>3. Demonstrate the skills of patent research on a concrete example.</p> <p><i>Control:</i> report with presentation.</p>
7	Topic 7. The inclusion intellectual property in civil circulation.	<p>1. List the ways to include intellectual property in the firm's assets.</p> <p>2. Conduct a comparative analysis of methods for calculating the value of intellectual property.</p> <p>3. Give example from business of the valuation of the intellectual property object.</p> <p><i>Control:</i> report with presentation.</p>
8	Topic 8. Commercial using of intellectual property.	<p>1. Study the classification of licenses.</p> <p>2. Study the content of license agreement using the example from business.</p> <p>3. Demonstrate the skills of calculating the amount of the license agreement and royalty payments.</p> <p><i>Control:</i> prepare a report with presentation and calculations.</p>
9	Theme 9. Protection of holders of rights to intellectual property.	<p>1. Describe the most frequently occurring violations of intellectual property rights.</p> <p>2. Propose an algorithm of actions to protect the rights of the owner of intellectual property.</p> <p>3. Study an example from life about how intellectual property rights are protected.</p> <p><i>Control:</i> prepare an essay or report with a presentation.</p>
10	Topic 10. Foreign experience of intellectual property management.	<p>1. Gather and systematize data on international organizations regulating intellectual property relations.</p> <p>2. Find information and learn about the experience of copyright protection in the European Union.</p> <p>3. Find information and learn the experience of patenting in the European Union countries.</p> <p><i>Control:</i> present the results in the form of an essay.</p>

11	Topic 11. Basis of information security.	1. Describe the threats to the information security of the company. 2. Explain the main reasons for the violation of information security. 3. Describe a case from business related to information security problems. <i>Control:</i> prepare a report with presentation.
12	Topic 12. Information security system.	1. Explain the need for an information security and management system in business. 2. Review the legislation on information security in the Republic of Belarus. 3. Show skills in solving a particular problem with information security. <i>Control:</i> prepare a report or an essay.

12. THE EVALUATION CRITERIA OF THE RESULTS ON A TEN-POINT SCALE (ACCORDING TO THE NATIONAL REQUIREMENTS)

A ten-point scale, depending on the grade and the mark, includes the following criteria:

10 (ten) points, passed:

- systematized, deep and full knowledge on all sections of the curriculum of the institution of higher education in the academic discipline, as well as on major issues that go beyond its limits;
- accurate use of scientific terminology (including in a foreign language), competent, logically correct statement of the answer to questions;
- perfect mastering of the tools of the academic discipline, the ability to use it effectively in formulation and solution of scientific and professional problems;
- the expressed ability independently and creatively to solve complex problems in non-standard situations;
- complete and profound studying of basic, additional literature on the subject of the discipline;
- the ability to freely navigate in theories, concepts and directions on the discipline and give them an analytical assessment, use the scientific achievements of other disciplines;
- creative independent work on practical, laboratory classes, active creative participation in group discussions, high level of the culture of performance of tasks.

9 (nine) points, passed:

- systematized, deep and full knowledge on all sections of the curriculum of the institution of higher education on the academic discipline;
- accurate use of scientific terminology (including in a foreign language), competent, logically correct statement of the answer to questions;
- mastering of the tools of the academic discipline, the ability to use it effectively in formulation and solution of scientific and professional problems;
- ability independently and creatively to solve complex problems in non-standard situations within the curriculum of the institution of higher education on the academic discipline;
- complete studying of basic, additional literature on the subject of the discipline, recommended by the curriculum of the institution of higher education on the discipline;
- the ability to navigate in theories, concepts and directions on the discipline and give them an analytical assessment;
- Systematic, active independent work on practical, laboratory classes, active creative participation in group discussions, high level of the culture of performance of tasks.

8 (eight) points, passed:

- systematized, deep and full knowledge on all sections of the curriculum of the institution of higher education in the academic discipline in the volume of the curriculum of the institution of higher education on the discipline;
- use of scientific terminology (including in a foreign language), competent, logically correct statement of the answer to questions, the ability to make sound conclusions and generalizations;
- mastering of the tools of the academic discipline (methods of complex analysis, information technology), the ability to use it effectively in formulation and solution of scientific and professional problems;
- ability independently to solve complex problems within the curriculum of the institution of higher education on the academic discipline;
- studying of basic, additional literature, recommended by the curriculum of the institution of higher education on the discipline;
- the ability to navigate in theories, concepts and directions on the discipline and give them an analytical assessment;
- active independent work on practical, laboratory classes, systematic participation in group discussions, high level of the culture of performance of tasks.

7 (seven) points, passed:

- systematized, deep and full knowledge on all sections of the curriculum of the institution of higher education on the academic discipline;
- use of scientific terminology (including in a foreign language), competent, logically correct statement of the answer to questions, the ability to make sound conclusions and generalizations;
- mastering of the tools of the academic discipline, the ability to use it effectively in formulation and solution of scientific and professional problems;
- free possession of generic solutions within the curriculum of the institution of higher education on the academic discipline;
- studying of basic, additional literature, recommended by the curriculum of the institution of higher education on the discipline;
- the ability to navigate in basic theories, concepts and directions on the discipline and give them an analytical assessment;
- independent work on practical, laboratory classes, participation in group discussions, high level of the culture of performance of tasks.

6 (six) points, passed:

- sufficiently full and systematized knowledge in the volume of the curriculum of the institution of higher education on the discipline;
- use of the necessary scientific terminology, competent, logically correct statement of the answer to questions, the ability to make sound conclusions and generalizations;
- mastering of the tools of the academic discipline, the ability to use it effectively in solution of scientific and professional problems;
- ability independently to apply generic solutions within the curriculum of the institution of higher education on the academic discipline;
- studying of basic literature, recommended by the curriculum of the institution of higher education on the discipline;

- the ability to navigate in basic theories, concepts and directions on the discipline and give them a comparative assessment;
- active independent work on practical, laboratory classes, periodic participation in group discussions, high level of the culture of performance of tasks.

5 (five) points, passed:

- sufficient knowledge in the volume of the curriculum of the institution of higher education on the discipline;
- use of scientific terminology, competent, logically correct statement of the answer to questions, the ability to make sound conclusions;
- mastering of the tools of the academic discipline, the ability to use it in solution of scientific and professional problems;
- ability independently to apply generic solutions within the curriculum of the institution of higher education on the academic discipline;
- studying of basic literature, recommended by the curriculum of the institution of higher education on the discipline;
- the ability to navigate in basic theories, concepts and directions on the discipline and give them a comparative assessment;
- active independent work on practical, laboratory classes, periodic participation in group discussions, high level of the culture of performance of tasks;
- independent work on practical, laboratory classes, periodic participation in group discussions, sufficient level of the culture of performance of tasks.

4 (four) points, passed:

- sufficient knowledge within the educational standard of higher education;
- studying of basic literature, recommended by the curriculum of the institution of higher education on the discipline;
- use of scientific terminology, logical statement of the answer to questions, the ability to make sound conclusions;
- ability to draw conclusions without essential errors;
- mastering of the tools of the academic discipline, the ability to use it in solution of standard (typical) tasks;
- ability to solve standard (typical) tasks under the guidance of a teacher;
- ability to navigate in basic theories, concepts and directions on the discipline and give them an assessment;
- work under the guidance of a teacher on practical, laboratory classes, the permissible level of the culture of performance of tasks.

3 (three) points, failed:

- insufficient knowledge within the educational standard of higher education;
- studying of basic literature, recommended by the curriculum of the institution of higher education on the discipline;
- knowledge of a part of the basic literature, recommended by the curriculum of the institution of higher education on the discipline;
- use of scientific terminology, presentation of answers to questions with significant, logical errors;
- weak possession of the tools of the academic discipline, incompetence in solving standard (typical) tasks;

- inability to navigate in basic theories, concepts and directions on the discipline;
- work under the guidance of a teacher on practical, laboratory classes, the permissible level of the culture of performance of tasks.
- passivity on practical, laboratory classes, low level of the culture of performance of tasks.

2 (two) points, failed:

- fragmented knowledge within the educational standard of higher education;
- knowledge of individual literary sources, recommended by the curriculum of the institution of higher education on the discipline;
- inability to use scientific terminology of the academic discipline, the presence in the answer of errors, logical errors;
- passivity on practical, laboratory classes, low level of the culture of performance of tasks.

1 (one) point, failed:

lack of knowledge and (competences) within the educational standard of higher education, failure to answer, failure to appear for attestation without good cause.

13. METHODS AND MEANS OF IMPLEMENTATION OF THE CONTENT OF THE EDUCATIONAL PROGRAM AND TRAINING OF EDUCATIONAL, TRAINING AND METHODOLOGICAL MATERIALS

The training will be conducted using interactive methods (round tables, project method) and distance learning technologies, implemented by means of the training portal (Moodle, eLearning Server). The students will be provided with electronic presentations of lectures, electronic and printed versions of handouts for practical classes.

On full-time classes, students will learn the discipline directly in the computer lab. The following software (SW) will be used during the training:

№	The name of the software	System requirements for the specified software	№ of the topic from the educational and methodical map, for the support of which the specified software will be used	For what purpose will the software be used?
1	Microsoft Office Word	Processor: Pentium® IV is minimal, Intel Centrino®, Intel Xeon®, Intel Core™ Duo (or compatible) processor RAM: 1 GB RAM, 1 GB or more recommended Video: DirectX 9 64MB of VRAM recommended Sound: not needed	Topics 1-12	To present the text when preparing written answers to the questions posed.
2	Microsoft Office Excel	Processor: Pentium® IV is minimal, Intel Centrino®, Intel Xeon®, Intel Core™ Duo (or compatible) processor RAM: 1 GB RAM, 1 GB or more recommended Video: DirectX 9 64MB of VRAM recommended Sound: not needed	Topics 2,7,8	To solve problems on the calculation of the authors' remuneration for the creation and use of intellectual property. For solving

№	The name of the software	System requirements for the specified software	№ of the topic from the educational and methodical map, for the support of which the specified software will be used	For what purpose will the software be used?
				problems on determining the value of intellectual property objects To solve problems on determining payments under a license agreement.
3	Microsoft Office PowerPoint	Processor: Pentium® IV is minimal, Intel Centrino®, Intel Xeon®, Intel Core™ Duo (or compatible) processor RAM: 1 GB RAM, 1 GB or more recommended Video: DirectX 9 64MB of VRAM recommended Sound: not needed	Topics 1-12	To visualize data when preparing presentations as answers to questions of a practical lesson For data visualization during lectures
4	Internet browser with support for flash graphics and style sheets: Google Chrome, or Opera, or Mozilla Firefox, as well as Internet Explorer no lower than the 9th version;	Processor: Pentium® IV is minimal, Intel Centrino®, Intel Xeon®, Intel Core™ Duo (or compatible) processor RAM: 1 GB RAM, 1 GB or more recommended Video: DirectX 9 64MB of VRAM recommended Sound: not needed	Topics 1-12 Topics 10 Topics 1-5,9	Ensuring secure access to the MOODLE system. Obtaining up-to-date information from Internet sites of International organizations related to the management of intellectual property Getting the latest information from national law portals
5	Modern anti-virus programs Kaspersky Anti-Virus, or Avast Free Antivirus, or Avira Antivir Personal, or ESET NOD32 antivirus	Processor: Pentium® IV is minimal, Intel Centrino®, Intel Xeon®, Intel Core™ Duo (or compatible) processor RAM: 1 GB RAM, 1 GB or more recommended Video: DirectX 9 64MB of VRAM recommended Sound: not needed	Topics 11-12	To acquire skills in working with antivirus software

The following tools and technologies were used in the preparation of training, teaching and methodological materials:

- MS Office;
- Internet services (browser, e-mail, tube);
- Moodle system;
- Modern antivirus programs;
- Specialized software (“Consultant Plus”, "Business-Info", "Etalon", "Expert").

14. RESOURCES

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