

Ministry of Health of Ukraine
Bogomolets National Medical University

GUIDELINES
to practical lessons

Educational discipline **“Fundamentals of patent law”**

Educational level	second (master's) level of higher education
Branch of knowledge	22 “Health care”
Specialty	222 “Medicine”
Educational program	“Medicine”

Department of Analytical, Physical and Colloid Chemistry

Approved at the meeting of the department of Analytical, Physical and Colloid Chemistry,
Proceeding № 1 dated “26” August 2022

Approved by cyclic methodical commission in natural sciences
Proceeding № 1 dated “31” August 2022

Topic of lesson No. 1: Copyright and related rights.

Competencies:

- ✓ demonstrate knowledge and understanding of the basics of copyright and related rights;
- ✓ understand the essence of the concept of "copyright" from the point of view of medicine;
- ✓ demonstrate the ability to abstract thinking, analysis and synthesis;
- ✓ demonstrate the ability to work in a team.

Goal:

- ✓ explain the relationship between copyright and cultural development;
- ✓ classify objects and subjects of copyright and related rights;
- ✓ analyze personal non-property rights and property rights of the author;
- ✓ reveal the meaning of copyright in the field of medicine.

Documentation:

1. Civil Code of Ukraine, Articles 433-456 (English translation).
2. Law of Ukraine "On Copyright and Related Rights" No. 3793-XII dated 12.23.1993, Articles 1, 7-15, 35-39 (English translation).

Lesson plan and organizational structure

Name of the stage	Description of the stage	Learning levels	Time
Introductory	Organizational issues	Familiarization	1 min
	Formation of motivation 1. Relevance of the topic 2. Importance in the culture and spiritual development of society; 3. Importance for medicine	Perception	3min
	Control of the initial level of training (standardized means of control)		8min
Basic	Debate and discussion of issues according to the subject of the lesson. 1. Objects and subjects of copyright. 2. Objects and subjects of related rights. 3. Personal non-property rights and property rights of the author..	Comprehension Understanding	30 min
	Practical tasks. 1. Is copying a photo on the	Application in practice	20 min

	<p>Internet and using it for advertising or other commercial purposes a violation of copyright?</p> <p>2. To justify the importance of knowledge and understanding of the concept of "copyright" for medicine.</p> <p>Students work in groups and together form answers to the tasks and their justification. Each group presents and defends its answer.</p>	Search creative activity	
	<p>Self-dependent class work</p> <p>Classify objects into those that are and those that are not objects of copyright: literary works, ideas, processes, methods of activity or mathematical concepts, computer programs, laws, decrees, resolutions, decisions, state symbols of Ukraine, currency signs, emblems approved by state authorities, works of art, news reports, data compilations (databases).</p>	<p>Application in practice</p> <p>Search creative activity</p>	5 min
	Summary	Consolidation of studied material	5 min
Final	Control of the final knowledge level (written test)	Reproduction of the studied material	15 min
	General evaluation of the student's educational activity		2 min
	Informing students about the topic of the next lesson and tasks for self-dependent work		1 min

Recommended literature.

Basic:

1. G. Zaitseva, Ya. Pushkarova, S. Hozhdzinskyi. Fundamentals of patent law: methodical guide / Bogomolets National Medical University, 2022. – p. 5-10.

2. Civil Code of Ukraine: dated January 16, 2003 No. 435-IV, Articles 433-456 (Chapters 36 and 37): as amended on 01.07.2022. URL: <https://cis-legislation.com/document.fwx?rgn=8896> (date of application: 08/27/2022).

3. On copyright and related rights: Law of Ukraine dated 23.12.1993 No. 3792-XII, Articles 1, 7-15, 35-39 : as amended on 15.12.2021. URL: <https://cis-legislation.com/document.fwx?rgn=9524> (date of application: 08/27/2022).

Additional:

1. State enterprise “Ukrainian intellectual property institute” (Ukrpatent). *Ukrpatent*. URL: <https://ukrpatent.org/en> (date of application: 27.08.2022).

2. World intellectual property organization. *IP Services and Resources*. URL: <http://www.wipo.int/portal/en/index.html> (date of application: 27.08.2022).

Questions for the student's self-preparation for the practical session:

1. Copyright and related rights: general provisions.
2. Objects and subjects of copyright and related rights.

Developers:

Zaitseva Galina – Head of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor,

Pushkarova Yaroslava – Associate Professor of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor.

Topic of lesson No.2: Health care inventions and utility models

Competencies:

- ✓ demonstrate knowledge and understanding of the basic principles of legal protection of inventions (utility models);
- ✓ understand the essence of the concept of "invention (useful model)" from the point of view of medicine;
- ✓ demonstrate the ability to abstract thinking, analysis and synthesis;
- ✓ demonstrate the ability to work in a team..

Goal:

- ✓ explain general information about inventions and utility models;
- ✓ familiarize with the main aspects of the protection of rights to inventions and utility models;
- ✓ familiarize with samples of patent documents, samples of patent applications, patent certificates for inventions (useful models), as well as with international INID codes;
- ✓ analyze the difference between the legal protection of an invention and a utility model;
- ✓ to reveal the peculiarities of patenting inventions (utility models) in the field of medicine.

Documentation:

1. Civil Code of Ukraine, Articles 459-470 (English translation).
2. Law of Ukraine "On the Protection of Rights to Inventions and Utility Models" No. 3687-XI of 15.12.1993, Articles 1, 6 and 7. (English translation).
3. Samples of patent documents for inventions and utility models.
4. International INID codes.
5. Samples of patent application inventions and utility models.
6. Photocopies of the originals of patentable inventions and utility models

Lesson plan and organizational structure

Name of the stage	Description of the stage	Learning levels	Time
Introductory	Organizational issues	Familiarization	1 min
	Formation of motivation: 1. Relevance of the topic 2. The first inventions in medicine; 3. Patent law in medicine	Perception	3min
	Control of the initial level of training (standardized means of control)		8min

Basic	<p>Debate and discussion of issues according to the subject of the lesson.</p> <ol style="list-style-type: none"> 1. General information about the invention and utility model. 2. Basics of legal protection of inventions and utility models. 3. Inventions and useful models in the field of medicine. 	Comprehension Understanding	30 min
	<p>Practical task: Analyze the difference between an invention and a utility model. Students work in groups and together form an answer to the task and its justification. Each group presents and defends its answer.</p>	Application in practice Search creative activity	20 min
	<p>Self-dependent class work Formulation "that does not contradict public order, the principles of humanity and morality" is not specific, in particular, for inventions in medicine and biotechnology. What inventions (useful models), in your opinion, in the field of medicine contradict the principles of humanity and morality and, accordingly, cannot receive legal protection?</p>	Application in practice	5 min
	Summary	Consolidation of studied material	5 min
Final	Control of the final knowledge level (written test)	Reproduction of the studied material	15 min
	General evaluation of the student's educational activity		2 min
	Informing students about the topic of the next lesson and tasks for self-dependent work		1 min

Recommended literature.

Basic:

1. G. Zaitseva, Ya. Pushkarova, S. Hozhdzinskyi. Fundamentals of patent law: methodical guide / Bogomolets National Medical University, 2022. – p. 10-14.

2. About protection of the rights to inventions and useful models: Law of Ukraine dated December 15, 1993 No. 3684-XII, articles 1, 6 and 7 : as amended on 15.06.2020. URL: <https://cis-legislation.com/document.fwx?rgn=16976> (date of application: 08/27/2022).

3. Civil Code of Ukraine: dated January 16, 2003 No. 435-IV, Articles 459-470 (Chapter 39) : as amended on 01.07.2022. URL: <https://cis-legislation.com/document.fwx?rgn=8896> (date of application: 08/27/2022).

Additional:

1. State enterprise “Ukrainian intellectual property institute” (Ukrpatent). *Ukrpatent*. URL: <https://ukrpatent.org/en> (date of application: 27.08.2022).

2. World intellectual property organization. *IP Services and Resources*. URL: <http://www.wipo.int/portal/en/index.html> (date of application: 27.08.2022).

Questions for the student's self-preparation for the practical session:

1. Inventions and utility models: general provisions.
2. Legal protection of inventions and utility models.

Developers:

Zaitseva Galina – Head of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor,

Pushkareva Yaroslava– Associate Professor of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor.

Topic of lesson No. 3: Object of the invention (utility model) "device".

Competencies:

- ✓ demonstrate knowledge and understanding of the main components of the description of the object of the invention "device";
- ✓ understand the object of the invention "device" from the point of view of medicine;
- ✓ demonstrate the ability for abstract thinking, analysis and synthesis;
- ✓ demonstrate the ability to work in a team.

Goal:

- ✓ explain possible essential features of the object of the invention "device";
- ✓ to interpret the peculiarities of the structure of the description of the object of the invention "device";
- ✓ analyze the design of graphic materials for the object of the invention "device";
- ✓ classify devices in medicine.

Documentation:

1. Law of Ukraine "On the Protection of Rights to Inventions and Utility Models" No. 3687-XI of 15.12.1993, Articles 1, 6 and 7. (English translation).
2. Samples of patent documents for inventions and utility models.
3. Samples of patent application inventions and utility models.

Lesson plan and organizational structure

Name of the stage	Description of the stage	Learning levels	Time
Introductory	Organizational issues	Familiarization	1 min
	Formation of motivation 1. Relevance of the topic 2. «device» - a fairly common object of invention; 3. devices, as objects of inventions (utility models), include machines, mechanisms, appliances, etc.	Perception	3min
	Control of the initial level of training (standardized means of control)		8min
Basic	Debate and discussion of issues according to the subject of the lesson. 1. Characteristics of the object of the invention "device". 2. Features of the structure of the description for the object of the	Comprehension Understanding	30 min

	invention "device". 3. Designing graphic materials for devices.		
	Practical task - offer examples of devices as objects of inventions in the field of medicine and justify their significance (or lack of significance) for the development of medicine. Students work in groups and together form an answer to the task and its justification. Each group presents and defends its answer.	Application in practice Search creative activity	20 min
	Self-dependent class work Propose an invention (device) that, in your opinion, is lacking for successful medical practice, and describe its essence (the technical problem to be solved by the invention).	Application in practice Search creative activity	5 min
	Summary	Consolidation of studied material	5 min
Final	Control of the final knowledge level (written test)	Reproduction of the studied material	15 min
	General evaluation of the student's educational activity		2 min
	Informing students about the topic of the next lesson and tasks for self-dependent work		1 min

Recommended literature.

Basic:

1. G. Zaitseva, Ya. Pushkarova, S. Hozhdzinskyi. Fundamentals of patent law: methodical guide / Bogomolets National Medical University, 2022. – p. 14-16.

2. About protection of the rights to inventions and useful models: Law of Ukraine dated December 15, 1993 No. 3684-XII, articles 1, 6 and 7 : as amended on 15.06.2020. URL: <https://cis-legislation.com/document.fwx?rgn=16976> (date of application: 08/27/2022).

Additional:

1. State enterprise “Ukrainian intellectual property institute” (Ukrpatent). *Ukrpatent*. URL: <https://ukrpatent.org/en> (date of application: 27.08.2022).

2. World intellectual property organization. *IP Services and Resources*. URL: <http://www.wipo.int/portal/en/index.html> (date of application: 27.08.2022).

Questions for the student's self-preparation for the practical session:

1. Features of the content of the application for the object of the invention "device".
2. Description of the object of the invention "device".

Developers:

Zaitseva Galina – Head of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor

Pushkarova Yaroslava – Associate Professor of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor

Topic of lesson No. 4: Object of the invention "method".

Competencies:

- ✓ demonstrate knowledge and understanding of the main constituent elements of the description of the object of the invention "method";
- ✓ understand the object of the invention "method" from the point of view of medicine;
- ✓ demonstrate the ability to abstract thinking, analysis and synthesis;
- ✓ demonstrate the ability to work in a team.

Goal:

- ✓ to explain the possible essential features of the object of the invention "method";
- ✓ to interpret the features of the structure of the description of the object of the invention "method".

Documentation:

1. Law of Ukraine "On the Protection of Rights to Inventions and Utility Models" No. 3687-XI of 15.12.1993, Articles 1, 6 and 7. (English translation).
2. Samples of patent documents for inventions and utility models.
3. Samples of patent application inventions and utility models.

Lesson plan and organizational structure

Name of the stage	Description of the stage	Learning levels	Time
Introductory	Organizational issues	Familiarization	1 min
	Formation of motivation. Possibilities of patenting methods of treatment and methods of diagnosis	Perception	3min
	Control of the initial level of training (standardized means of control)		8min
Basic	Debate and discussion of issues according to the subject of the lesson. 1. Essential features for characterizing the object of the invention "method". 2. Features of the structure of the description of the object of the invention "method". 3. Objects of method patenting.	Comprehension Understanding	30 min
	Practical tasks. In the latest edition of the Law of Ukraine "On the Protection of	Application in practice Search creative	20 min

	<p>Rights to Inventions and Utility Models" (No. 816-IX dated 21.07.2020), a new norm for Ukraine was introduced: surgical or therapeutic methods of human or animal treatment, diagnostic methods cannot receive legal protection as inventions (utility models) human or animal body. What is your opinion about such a norm?</p> <p>Students work in groups and together form an answer to the task and its justification. Each group presents and defends its answer.</p>	activity	
	<p>Self-dependent class work Methods of manufacturing medicinal compositions and biologically active additives occupy a special place among other objects of intellectual property law. Justify the truth of this statement.</p>	Application in practice Search creative activity	5 min
	Summary	Consolidation of studied material	5 min
Final	Control of the final knowledge level (written test)	Reproduction of the studied material	15 min
	General evaluation of the student's educational activity		2 min
	Informing students about the topic of the next lesson and tasks for self-dependent work		1 min

Recommended literature.

Basic:

1. G. Zaitseva, Ya. Pushkarova, S. Hozhdzinskyi. Fundamentals of patent law: methodical guide / Bogomolets National Medical University, 2022. – p. 16-17.

2. About protection of the rights to inventions and useful models: Law of Ukraine dated December 15, 1993 No. 3684-XII, articles 1, 6 and 7 : as amended on 15.06.2020. URL: <https://cis-legislation.com/document.fwx?rgn=16976> (date of application: 08/27/2022).

Additional:

1. State enterprise “Ukrainian intellectual property institute” (Ukrpatent). *Ukrpatent*. URL: <https://ukrpatent.org/en> (date of application: 27.08.2022).
2. World intellectual property organization. *IP Services and Resources*. URL: <http://www.wipo.int/portal/en/index.html> (date of application: 27.08.2022).

Questions for the student's self-preparation for the practical session:

1. Features of the content of the application for the object of the invention "method" ("process").
2. Description of the object of the invention "method".

Developers:

Zaitseva Galina – Head of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor,

Pushkareva Yaroslava – Associate Professor of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor.

Topic of lesson No. 5: Composing of the invention's formula for various objects

Competencies:

- ✓ demonstrate knowledge and understanding of the main constituent parts of the claims;
- ✓ to know the peculiarities of drawing up the formula of the invention, as well as the formula for a chemical compound and for the use of a known object for a new, non-obvious purpose;
- ✓ demonstrate the ability for abstract thinking, analysis and synthesis;
- ✓ demonstrate the ability to work in a team.

Goal:

- ✓ to classify and explain the components of the claims;
- ✓ analyze single-link and multi-link formulas;
- ✓ interpret the formula of the invention for a chemical compound;
- ✓ to interpret the formula of the invention for the use of a known object for a new, non-obvious purpose.

Documentation:

1. Law of Ukraine "On the Protection of Rights to Inventions and Utility Models" No. 3687-XI of 15.12.1993, Articles 1, 6 and 7. (English translation).
2. Samples of patent documents for inventions and utility models.
3. Samples of patent application inventions and utility models

Lesson plan and organizational structure

Name of the stage	Description of the stage	Learning levels	Time
Introductory	Organizational issues	Familiarization	1 min
	Formation of motivation formula of the invention (utility model): 1. intended to determine the scope of legal protection; 2. must concisely and clearly reflect the essence of the invention.	Perception	3min
	Control of the initial level of training (standardized means of control)		8min
Basic	Debate and discussion of issues according to the subject of the lesson. 1. Constituent parts of the claim and its types. 2. The formula of the invention	Comprehension Understanding	30 min

	for a chemical compound. 3. The invention formula for the use of a known object for a new, non-obvious purpose.		
	<p>Practical tasks.</p> <p>Analyze the formula of the invention on the example of a real object taken from the State patent database.</p> <p>Example formula:</p> <p>Dietary supplement containing hawthorn fruit extract, ethyl alcohol 40% and purified water, which is distinguished by the fact that it additionally contains rosehip fruit extract, mountain ash extract, with the following ratio of components, wt.%:</p> <p>hawthorn fruit extract – 3.0–7.0; rosehip fruit extract – 3.0–7.0; mountain ash extract - 1.5-4.5; ethyl alcohol 40% - 35.0-50.0; the water is purified - the rest.</p> <p>Students work in groups and together form an answer to the task and its justification. Each group receives its version of the formula. Each group presents and defends its answer.</p>	Application in practice Search creative activity	20 min
	Self-dependent class work Describe the difference between a single-link formula and a multi-link formula.	Application in practice Search creative activity	5 min
	Summary	Consolidation of studied material	5 min
Final	Control of the final knowledge level (written test)	Reproduction of the studied material	15 min
	General evaluation of the student's educational activity		2 min
	Informing students about the topic of the next lesson and tasks for self-dependent work		1 min

Recommended literature.

Basic:

1. G. Zaitseva, Ya. Pushkarova, S. Hozhdzinskyi. Fundamentals of patent law: methodical guide / Bogomolets National Medical University, 2022. – p. 18-19.

2. About protection of the rights to inventions and useful models: Law of Ukraine dated December 15, 1993 No. 3684-XII, articles 1, 6 and 7 : as amended on 15.06.2020. URL: <https://cis-legislation.com/document.fwx?rgn=16976> (date of application: 08/27/2022).

Additional:

1. State enterprise “Ukrainian intellectual property institute” (Ukrpatent). *Ukrpatent*. URL: <https://ukrpatent.org/en> (date of application: 27.08.2022).

2. World intellectual property organization. *IP Services and Resources*. URL: <http://www.wipo.int/portal/en/index.html> (date of application: 27.08.2022).

Questions for the student's self-preparation for the practical session:

1. Meaning of the formula of the invention.
2. Single-link and multi-link formulas of the invention.

Developers:

Zaitseva Galina – Head of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor,

Pushkarova Yaroslava – Associate Professor of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor.

Topic of lesson No. 6: Medicines industrial designs.

Competencies:

- ✓ demonstrate knowledge and understanding of the basic principles of legal protection of industrial designs;
- ✓ understand the essence of the concept of "industrial design" from the point of view of medicine;
- ✓ know the procedure for drawing up and submitting an application for an industrial design;
- ✓ demonstrate the ability for abstract thinking, analysis and synthesis;
- ✓ demonstrate the ability to work in a team.

Goal:

- ✓ explain possible essential features for industrial designs;
- ✓ familiarize with samples of patent documents, samples of patent applications, patent certificates for industrial designs;
- ✓ familiarize with the main aspects of the basics of legal protection of industrial designs;
- ✓ analyze the structure of the industrial design application;
- ✓ to reveal the meaning of industrial designs in the field of medicine.

Documentation:

1. Civil Code of Ukraine, Articles 459-470 (Chapter 39). (English translation).
2. Law of Ukraine "On Protection of Rights to Industrial Designs" No. 3688-XII dated 15.12.1993, Articles 1, 5 and 6. (English translation).
3. Samples of patent documents for industrial designs.
4. International INID codes.
5. Samples of patent applications and industrial designs.
6. Photocopies of the originals of patent-literate industrial samples.

Lesson plan and organizational structure

Name of the stage	Description of the stage	Learning levels	Time
Introductory	Organizational issues	Familiarization	1 min
	Formation of motivation 1. Relevance of the topic 2. industrial design protection promotes economic development	Perception	3min
	Control of the initial level of training (standardized means of control)		8min
Basic	Debate and discussion of issues according to the subject of the lesson.	Comprehension Understanding	30 min

	<p>1. Industrial designs: general information.</p> <p>2. Possible essential features of industrial designs.</p> <p>3. Application for an industrial design.</p>		
	<p>Practical tasks.</p> <p>– classify objects of industrial design in medicine and substantiate their significance for the development of medicine.</p> <p>Students work in groups and together form an answer to the given task and its justification. Each group presents and defends its answer.</p>	<p>Application in practice</p> <p>Search creative activity</p>	<p>20 min</p>
	<p>Self-dependent class work</p> <p>Determine which of the following objects belong and do not belong to objects of industrial design: form, industrial structures, drawing, objects of architecture, printed products, objects of gaseous substances, objects of loose substances.</p>	<p>Application in practice</p> <p>Search creative activity</p>	<p>5 min</p>
	<p>Summary</p>	<p>Consolidation of studied material</p>	<p>5 min</p>
Final	<p>Control of the final knowledge level (written test)</p>	<p>Reproduction of the studied material</p>	<p>15 min</p>
	<p>General evaluation of the student's educational activity</p>		<p>2 min</p>
	<p>Informing students about the topic of the next lesson and tasks for self-dependent work</p>		<p>1 min</p>

Recommended literature.

Basic:

1. G. Zaitseva, Ya. Pushkarova, S. Hozhdzinskyi. Fundamentals of patent law: methodical guide / Bogomolets National Medical University, 2022. – p. 20-23.

2. Civil Code of Ukraine: dated January 16, 2003 No. 435-IV, Articles 459-470 (Chapter 39) : as amended on 01.07.2022. URL: <https://cis-legislation.com/document.fwx?rgn=8896> (date of application: 08/27/2022).

3. About protection of the rights to industrial designs: Law of Ukraine dated December 15, 1993 No. 3688-XII, Articles 1, 5 and 6 : as amended on 16.06.2020. URL: <https://cis-legislation.com/document.fwx?rgn=14464> (date of application: 08/27/2022).

Additional:

1. About approval of rules of creation and provision of the request for industrial design: Order of the Ministry of Education and Science of Ukraine dated February 18, 2002 No. 110: as amended on 14.06.2011. URL: <https://cis-legislation.com/document.fwx?rgn=14158> (date of application: 08/27/2022).

Questions for the student's self-preparation for the practical session:

1. Objects of industrial design.
2. Criteria for protection capability of an industrial model.

Developers:

Zaitseva Galina – Head of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor,

Pushkaova Yaroslava– Associate Professor of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor.

Topic of lesson No. 7: Trademarks for Goods and Services related to medicine.

Competencies:

- ✓ demonstrate knowledge and understanding of the basic principles of legal protection of marks for goods and services;
- ✓ understand the essence of the concept of "trademarks for goods and services" from the point of view of medicine;
- ✓ demonstrate the ability for abstract thinking, analysis and synthesis;
- ✓ demonstrate the ability to work in a team.

Goal:

- ✓ classify Trademarks for Goods and Services;
- ✓ explain the conditions for providing legal protection of Trademarks for Goods and Services;
- ✓ classify Trademarks for Goods and Services in medicine and pharmacy;
- ✓ to interpret the rights holder of the certificate of Ukraine of Trademarks for Goods and Services;
- ✓ familiarize with samples of patent documents, samples of patent applications, patent certificates of Trademarks for Goods and Services.

Documentation:

1. Civil Code of Ukraine, Articles 489-491 (Chapter 43).
2. Law of Ukraine "On Protection of Rights to Trademarks for Goods and Services" No. 3689-XII dated 15.12.1993, articles 1, 5 and 6.
3. Samples of patent documents of Trademarks for Goods and Services.
4. International INID codes.
5. Samples of patent applications of Trademarks for Goods and Services.
6. Photocopies of original patent legal Trademarks for Goods and Services

Lesson plan and organizational structure

Name of the stage	Description of the stage	Learning levels	Time
Introductory	Organizational issues	Familiarization	1 min
	Formation of motivation 1. Relevance of the topic 2. Brands help to distinguish goods from different manufacturers; 3. The right to a commercial name, the right to a trademark, the right to a geographical indication.	Perception	3min
	Control of the initial level of training (standardized means of control)		8min

Basic	<p>Debate and discussion of issues according to the subject of the lesson.</p> <p>1. mark for goods and services: general information.</p> <p>2. Conditions for providing legal protection for trademarks.</p> <p>3. The rights of the owner of the certificate of Ukraine to a mark for goods and services (trade mark).</p>	Comprehension Understanding	30 min
	<p>Practical tasks.</p> <p>- to classify and detail the use of trademarks in medicine and pharmacy.</p> <p>Students work in groups and together form an answer to the task and its justification. Each group presents and defends its answer.</p>	Application in practice Search creative activity	20 min
	<p>Self-dependent class work</p> <p>Determine which of the designations can receive legal protection: verbal in the form of words or combinations of letters that do not have distinguishing ability; pictorial in the form of graphic compositions of any shape on the plane; state coats of arms, flags and emblems; volumetric in the form of figures or their compositions in three dimensions; emblems; abbreviated or full names of international intergovernmental organizations; combinations of verbal, pictorial and volumetric designations; official control, guarantee and test stamps; stamps; official names of states; awards and honors.</p>	Application in practice Search creative activity	5 min
	Summary	Consolidation of studied material	5 min
Final	Control of the final knowledge	Reproduction of the	15

	level (written test)	studied material	min
	General evaluation of the student's educational activity		2 min
	Informing students about the topic of the next lesson and tasks for self-dependent work		1 min

Recommended literature.

Basic:

1. G. Zaitseva, Ya. Pushkarova, S. Hozhdzinskyi. Fundamentals of patent law: methodical guide / Bogomolets National Medical University, 2022. – p. 23-27.

2. Civil Code of Ukraine: dated January 16, 2003 No. 435-IV, Articles 489-491 (Chapter 43) : as amended on 01.07.2022. URL: <https://cis-legislation.com/document.fwx?rgn=8896> (date of application: 08/27/2022).

3. About protection of the rights to signs for goods and services: Law of Ukraine dated December 15, 1993 No. 3689-XII, Articles 1, 5 and 6 : as amended on 16.06.2020. URL: <https://cis-legislation.com/document.fwx?rgn=14634> (date of application: 08/27/2022).

Additional:

1. About approval of rules of creation and provision of the request for industrial design: Order of the Ministry of Education and Science of Ukraine dated February 18, 2002 No. 110: as amended on 14.06.2011. URL: <https://cis-legislation.com/document.fwx?rgn=14158> (date of application: 08/27/2022).

Questions for the student's self-preparation for the practical session:

1. Trademark objects.
2. Grounds for refusing to grant legal protection for trademarks.

Developers:

Zaitseva Galina – Head of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor,

Pushkareva Yaroslava – Associate Professor of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor.

Topic of lesson No. 8: Licensing – as a legal means of using intellectual property objects.

Competencies:

- ✓ demonstrate knowledge and understanding of the basic principles of licensing as a legal way of using intellectual property objects;
- ✓ demonstrate the ability for abstract thinking, analysis and synthesis;
- ✓ demonstrate the ability to work in a team.

Goal:

- ✓ interpret the concept of a license for the right to use intellectual property objects;
- ✓ analyze and classify license agreements;
- ✓ explain the pricing and types of payments for obtaining a license.

Documentation:

1. Civil Code of Ukraine, Articles 1107-1114 (Chapter 75).

Lesson plan and organizational structure

Name of the stage	Description of the stage	Learning levels	Time
Introductory	Organizational issues	Familiarization	1 min
	Formation of motivation 1. Relevance of the topic 2. license agreement 3. world practice and accumulated experience have improved it over time.	Perception	3min
	Control of the initial level of training (standardized means of control)		8min
Basic	Debate and discussion of issues according to the subject of the lesson. 1. Licensing: basic terms. 2. License agreement and its types. 3. Pricing and types of payments	Comprehension Understanding	30 min
	Practical tasks. - name the main principles of state policy in the field of licensing. Students work in groups and together form an answer to the task and its justification. Each group presents and defends its	Application in practice Search creative activity	20 min

	answer.		
	Self-dependent class work What role do you think licensing plays in medicine?	Application in practice Search creative activity	5 min
	Summary	Consolidation of studied material	5 min
Final	Control of the final knowledge level (written test)	Reproduction of the studied material	15 min
	General evaluation of the student's educational activity		2 min
	Informing students about the topic of the next lesson and tasks for self-dependent work		1 min

Recommended literature.

Basic:

1. G. Zaitseva, Ya. Pushkarova, S. Hozhdzinskyi. Fundamentals of patent law: methodical guide / Bogomolets National Medical University, 2022. – p. 27-30.

2. Civil Code of Ukraine: dated January 16, 2003 No. 435-IV, Articles 1107-1114 (Chapter 75) : as amended on 01.07.2022. URL: <https://cis-legislation.com/document.fwx?rgn=8896> (date of application: 08/27/2022).

Additional:

1. State enterprise “Ukrainian intellectual property institute” (Ukrpatent). *Ukrpatent*. URL: <https://ukrpatent.org/en> (date of application: 27.08.2022).

2. World intellectual property organization. *IP Services and Resources*. URL: <http://www.wipo.int/portal/en/index.html> (date of application: 27.08.2022).

Questions for the student's self-preparation for the practical session:

1. License agreement as a legal form of transfer of rights to objects of industrial property.

2. Procedure for settlements under license agreements.

Developers:

Zaitseva Galina – Head of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor,

Pushkarova Yaroslava – Associate Professor of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor.

Topic of lesson No. 9: Patents search.

Competencies:

- ✓ demonstrate the ability to search, select and evaluate the quality of sources for conducting a patent search;
- ✓ have the skills of quick and relevant information search;
- ✓ have the skills to use electronic means of searching for information;
- ✓ demonstrate the ability for abstract thinking, analysis and synthesis;
- ✓ demonstrate the ability to work in a team.

Goal:

- ✓ explain the concept of "patent search" and its meaning;
- ✓ classify search criteria in patent databases;
- ✓ analyze the selection of sources of patent information for patent search;
- ✓ to analyze the possibilities of the Internet as a source of information for patent search.

Documentation:

1. List of national databases of different countries.

Lesson plan and organizational structure

Name of the stage	Description of the stage	Learning levels	Time
Introductory	Organizational issues	Familiarization	1 min
	Formation of motivation 1. the purpose of the patent search 2. determining the novelty of a possible object of a potential invention (useful model), 3. patent research, 4. patent purity of products	Perception	3min
	Control of the initial level of training (standardized means of control)		8min
Basic	Debate and discussion of issues according to the subject of the lesson. 1. Search criteria in patent databases. 2. Types of patent search. 3. Selection of sources of patent information for patent search.	Comprehension Understanding	30 min
	Practical tasks. - justify the quality and	Application in practice	20 min

	capabilities of the Internet as a source of information for patent search. Students work in groups and together form an answer to the task and its justification. Each group presents and defends its answer.	Search creative activity	
	Self-dependent class work Which type of patent search do you find most convenient and why?	Application in practice Search creative activity	5 min
	Summary	Consolidation of studied material	5 min
Final	Control of the final knowledge level (written test)	Reproduction of the studied material	15 min
	General evaluation of the student's educational activity		2 min
	Informing students about the topic of the next lesson and tasks for self-dependent work		1 min

Recommended literature.

Basic:

1. G. Zaitseva, Ya. Pushkarova, S. Hozhdzinskyi. Fundamentals of patent law: methodical guide / Bogomolets National Medical University, 2022. – p. 30-33.

Additional:

1. State enterprise “Ukrainian intellectual property institute” (Ukrpatent). *Ukrpatent*. URL: <https://ukrpatent.org/en> (date of application: 27.08.2022).

2. World intellectual property organization. *IP Services and Resources*. URL: <http://www.wipo.int/portal/en/index.html> (date of application: 27.08.2022).

Questions for the student's self-preparation for the practical session:

1. The concept of "patent search".
2. Sources of patent information.

Developers:

Zaitseva Galina – Head of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor,

Pushkarova Yaroslava – Associate Professor of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor.

Topic of lesson No. 10: Search of scientific information.

Competencies:

- ✓ demonstrate the ability to search, select and evaluate the quality of sources;
- ✓ have the skills of quick and relevant information search;
- ✓ have the skills to use electronic means of searching for information;
- ✓ demonstrate the ability for abstract thinking, analysis and synthesis;
- ✓ demonstrate the ability to work in a team.

Goal:

- ✓ explain the characteristics of the information search process;
- ✓ analyze the meaning of scientific information;
- ✓ classify information sources;
- ✓ analyze the peculiarities of searching for scientific information on the Internet;
- ✓ to analyze the specifics of the activities of national libraries and databases of scientific literature.

Documentation:

1. List of national libraries and databases of scientific information with indicated electronic addresses and a brief description.

Lesson plan and organizational structure

Name of the stage	Description of the stage	Learning levels	Time
Introductory	Organizational issues	Familiarization	1 min
	Formation of motivation 1. search of the necessary information for the successful performance of scientific work; 2. the importance and role of scientific information	Perception	3min
	Control of the initial level of training (standardized means of control)		8min
Basic	Debate and discussion of issues according to the subject of the lesson. 1. Peculiarities of the scientific literature search process. 2. Content and nature of information sources. 3. Search of scientific information via Internet.	Comprehension Understanding	30 min
	Practical tasks.	Application in	20

	- Internet or library? Students work in groups and together form an answer to the task and its justification. Each group presents and defends its answer.	practice Search creative activity	min
	Self-dependent class work Describe the stages of information search for educational activities (use personal experience).	Application in practice Search creative activity	5 min
	Summary	Consolidation of studied material	5 min
Final	Control of the final knowledge level (written test)	Reproduction of the studied material	15 min
	General evaluation of the student's educational activity		2 min
	Informing students about the topic of the next lesson and tasks for self-dependent work		1 min

Recommended literature.

Basic:

1. G. Zaitseva, Ya. Pushkarova, S. Hozhdzinskyi. Fundamentals of patent law: methodical guide / Bogomolets National Medical University, 2022. – p. 33-35.

Additional:

1. Google Scholar. <https://scholar.google.com.ua/> (date of application: 27.08.2022).

2. Scopus. <https://www.scopus.com/> (date of application: 27.08.2022).

3. Web of Science. <https://clarivate.com/cis/solutions/web-of-science/> (date of application: 27.08.2022).

4. ScienceDirect. <https://www.sciencedirect.com/> (date of application: 27.08.2022).

Questions for the student's self-preparation for the practical session:

1. Concepts of "scientific information" and "information search".

2. Electronic search of scientific information.

Developers:

Zaitseva Galina – Head of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor,

Pushkarova Yaroslava – Associate Professor of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor.

Topic of lesson No. 11: Citation and bibliography.

Competencies:

- ✓ describe competently and correctly refer to the source;
- ✓ have the skills of correct citation;
- ✓ to realize the importance and necessity of bibliographic culture as a criterion of scientific ethics;
- ✓ to show respect for the achievements of other authors and for the institute of intellectual property in professional and educational activities;
- ✓ demonstrate the ability to work in a team.

Goal:

- ✓ explain the elements of the bibliographic record description;
- ✓ classify types of bibliographic record;
- ✓ analyze the rules for compiling bibliographic references.

Documentation:

1. Examples of citations and bibliography.

Lesson plan and organizational structure

Name of the stage	Description of the stage	Learning levels	Time
Introductory	Organizational issues	Familiarization	1 min
	Formation of motivation 1. Actuality of theme 2. Integral element of scientific work 3. The most important characteristic of the quality of scientific work	Perception	3min
	Control of the initial level of training (standardized means of control)		8min
Basic	Debate and discussion of issues according to the subject of the lesson. 1. Bibliographic reference. Terms. 2. Types of bibliographic references and rules for their compilation. 3. Rules for creating bibliographic references.	Comprehension Understanding	30 min
	Practical tasks. - can citation errors be considered	Application in practice	20 min

	academic plagiarism? Students work in groups and together form an answer to the task and its justification. Each group presents and defends its answer.	Search creative activity	
	Self-dependent class work How do you understand the qualitative and quantitative characteristics of bibliographic references? What is more important?	Application in practice Search creative activity	5 min
	Summary	Consolidation of studied material	5 min
Final	Control of the final knowledge level (written test)	Reproduction of the studied material	15 min
	General evaluation of the student's educational activity		2 min
	Informing students about the topic of the next lesson and tasks for self-dependent work		1 min

Recommended literature.

Basic:

1. G. Zaitseva, Ya. Pushkarova, S. Hozhdzinskyi. Fundamentals of patent law: methodical guide / Bogomolets National Medical University, 2022. – p. 35-45.

Additional:

1. APA Style. <https://apastyle.apa.org/6th-edition-resources> (date of application: 27.08.2022).

Questions for the student's self-preparation for the practical session:

1. Concepts of "bibliographic record" and "bibliographic description".
2. Elements of bibliographic description.

Developers:

Zaitseva Galina – Head of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor,

Pushkarova Yaroslava – Associate Professor of the Analytical, Physical and Colloid Chemistry Department, PhD, Associate Professor.