



Syllabus of academic discipline

Subject "Commercialization of Technologies and Objects of Patent Law"

Course page in Moodle <http://virt.lac.lviv.ua/course/view.php?id=3979>

Number of classes: 40 hours

Consultations: according to the schedule

Name of the department: Department of International Economic Relations

Teaching language: English

Course leader

Doctor of Sciences in Economics, Associate Professor
Associate Professor of International Economic Relations Department
Poliakova Yuliia Volodymyrivna

Profile of Course leader:

<http://www.lute.lviv.ua/kafedri/kafedra-mizhnarodnikh-ekonomichnikh-vidnosin/poljakova-julija-volodimirivna/?L=10>

Contact Information

polyakova0909@gmail.com +0991800199

Description of the discipline

Discipline abstract: Commercialization of Technologies and Objects of Patent Law is a discipline, an elective component of the curriculum. As an elective component, the study of the discipline will allow the applicant to form an individual educational trajectory.

During the study of this discipline, applicants gain knowledge about the general characteristics of the transfer (transfer) of technologies and objects of patent law, forms and means of technological exchange, the organization of the process of commercialization of technologies; methods of valuation of intellectual property; legal aspects of technology transfer and regulation of the use of intellectual property; features of marketing of technologies and high-tech products, etc.; ability to conduct a comparative analysis of the advantages and disadvantages of different forms of technology transfer for the economy; to develop and substantiate the stages of technology transfer by the enterprise; to evaluate a specific object of intellectual property; develop a questionnaire for conducting a technological audit; substantiate the main provisions of the license agreement; to calculate the price of the license.

Format of the discipline: face-to-face series of lectures and practical classes, independent work of applicants, performance of individual research tasks. Applicants have the opportunity to receive individual consultations. During the session, the format is full-time.

Characteristics of the discipline

Number of credits	Total hours	Weekly hours for full-time study:		Type of final control
		auditorium	independent work	
4	120	3,3	6,7	test

The scope of discipline

Type of educational activity	Total hours
Lecture	20
Practice lesson	20
Independent work	80
including individual research tasks	-

Didactic map of the discipline

Name of the topic, description of the topic, tasks for independent work	Course schedule		Type of training activities	Forms and methods of teaching	Evaluation of work, points	
	Week semester	Details of the conduction (according to the temporary schedule, according to the permanent schedule)				Number of hours
Topic 1. Special features of international economic cooperation in the field of transfer of technologies and objects of patent law Tasks for independent work: Geographical features of international technology exchange	1	according to the temporary schedule	4	lecture	Problem-oriented lecture, express-survey	2
	2	according to the temporary schedule	4	practice lesson	Verbal interview, problem solving, discussion of situational tasks	2
	1-2		11	independent work	Work with educational and methodical literature, summarizing, solving problems, testing in the distance course	3
	3	according to the schedule	4	lecture	Lecture-visualization, express-survey	2
	4	according to the schedule	4	practice lesson	Verbal interview, problem solving, discussion of situational tasks	2
Topic 2. Legal aspects of technology transfer and regulation of use of intellectual property objects Tasks for independent work: comparative analysis of the advantages and disadvantages of different forms of technology transfer; getting acquainted with the text of an optional international agreement	3-4		11	independent work	Work with educational and methodical literature, summarizing, solving problems, testing in the distance course	3
	5	according to the schedule	4	lecture	Problem-oriented lecture, express-survey	5
	6	according to the schedule	4	practice lesson	Verbal questioning, testing, problem solving, discussion of situational tasks	2
	5-6		11	independent work	Work with educational and methodical literature, summarizing, solving problems	2
	7	according to the schedule	2	lecture	Lecture, express-survey	3
Topic 3. Modern forms and means of technology exchange Tasks for independent work: Substantiating the scheme of participation of a business entity in the processes of technology exchange	8	according to the schedule	2	practice lesson	Seminar-discussion, problem solving, discussion of situational tasks	3
	7-8		11	independent work	Work with educational and methodical literature, summarizing, solving problems, testing in the distance course	5
	8	according to the schedule	2	lecture	Lecture, express-survey	2
	9	according to the schedule	2	practice lesson	Workshop, problem solving, discussion of situational tasks	3
	8-9		12	independent	Work with educational and	5
Topic 4. Organisation of the process of commercialization of technologies Tasks for independent work: Preparation and conclusion of a leasing agreement	8	according to the schedule	2	lecture	Lecture, express-survey	2
	8	according to the schedule	2	practice lesson	Seminar-discussion, problem solving, discussion of situational tasks	3
	7-8		11	independent work	Work with educational and methodical literature, summarizing, solving problems, testing in the distance course	5
	8	according to the schedule	2	lecture	Lecture, express-survey	2
	9	according to the schedule	2	practice lesson	Workshop, problem solving, discussion of situational tasks	3
Topic 5. Estimation of the value of intellectual property rights Tasks for independent work: calculation of the value of rights to specific intellectual property	8-9		12	independent	Work with educational and	5

Topic 6. Features of strategic marketing of technologies and high-tech products Tasks for independent work: drawing up Questionnaire for a technological audit	10	according to the schedule	2	lecture	methodical literature, summarizing, solving problems, testing in the distance course Lecture, express-survey	2
	11	according to the schedule	2	practice lesson	Seminar-discussion, problem solving, discussion of situational tasks	3
	10-11		12	independent work	Work with educational and methodical literature, summarizing, solving problems, testing in the distance course	5
Topic 7. Participation of economic entities of Ukraine in international transfer of technologies Tasks for independent work: development of stages of technology transfer by an innovative enterprise	11	according to the schedule	2	lecture	Problem-oriented lecture, express-survey	2
	12	according to the schedule	2	practice lesson	Verbal interview, problem solving, discussion of situational tasks	3
	11-12		12	independent work	Work with educational and methodical literature, summarizing, solving problems, testing in the distance course	5
Control testing						15
Total			120			100

Individual educational and research task

not included

Hardware and software

Personal computers with Internet connection and access to the LTEU Web Center (distance learning courses and electronic library) to get acquainted with educational content, perform tasks of independent work, take tests.

Course policy

The course involves both individual work and work in groups.

The environment in the audience is friendly, creative, open to constructive criticism.

Attendance is a mandatory component of the assessment for which points are awarded. For objective reasons (for example, illness, study abroad in exchange programs), learning can take place remotely in consultation with the course leader with a presentation of the tasks performed during the teacher's consultation.

Independent work includes theoretical study of issues related to the topics of lectures that are not included in the theoretical course, or have been considered briefly, their in-depth study of the recommended literature, as well as tasks to consolidate theoretical material.

All tasks provided by the program must be completed on time.

Debt settlement takes place within 1 week after the deadline. The score is reduced by 10%.

Violation of academic integrity will not be allowed while working on tasks.

Evaluation system and requirements

Types of control: current, barrier, final.

Methods of control: observation of educational activities of higher education applicants, verbal examination, written control, test control, performance of educational and individual tasks.

Evaluation of educational work of applicants for higher education by types

Type of control	Type of educational activity	Evaluation
CURRENT CONTROL	Work on lectures:	
	- attendance at classes	0,3 point
	- keeping notes	0,7 point
	- participation in an express survey	1 point
	For work at the lecture the applicant can get a maximum of 2 points	
	For work on lectures the applicant can receive a maximum of 20 points	
	Work on practical classes:	
	- attendance at classes	0,5 point
	- verbal examination, testing, solving practical problems	1 point
	- participation in educational discussion, discussion of the situational task, business game	1,5 points
	For work on a practical lesson the applicant can get a maximum of 3 points	
For work in practical classes, the applicant can receive a maximum of 30 points		
Independent work		
For one topic of independent work, the applicant can get a maximum of 5 points		
For independent work, the applicant can receive a maximum of 35 points		
BARRIER CONTROL	Control testing	for each correct answer - 0,5 point
	For control testing, the applicant can receive a maximum of 15 points	
ADDITIONAL EVALUATION	Participation in scientific conferences, preparation of scientific publications, performance of researches, etc.	According to the decision of the department
FINAL CONTROL (test)	The test is set based on the results of current and boundary control, is based on the results of the study of the discipline	The evaluation criteria are shown in the tables

The equivalent of the score in points for each topic is different, the total amount of points per topic is determined in the distribution of points received by higher education applicants in the study of the discipline.

The final (general) assessment of the discipline is the sum of rating assessments (points) obtained for

individual assessed forms of educational activities: current assessment of the level of assimilation of theoretical material during classroom classes and independent work; assessment (points) for IDP; score (points) for participation in scientific conferences, competitions, research, preparation of scientific publications, etc.

The distribution of points semester by topic for the current control of applicant' knowledge, for different types of final control are given in the tables.

For test

Current testing and independent work								Total
T1	T2	T3	T4	T5	T6	T7	KT1	100
15	15	15	10	10	10	10	15	

T1, T2 ... T7 – topics of lessons

KT1 – number of the control test

The result of the educational activity of the applicant for higher education is assessed in accordance with the Regulations on the assessment of knowledge and skills of applicants for higher education of Lviv University of Trade and Economics at the following levels and criteria:

Points	Evaluation criteria	Level of competence	Mark
90-100	The applicant demonstrates complete and solid knowledge of the educational material in the amount that corresponds to the program of the discipline, correctly and reasonably makes the necessary decisions in various non-standard situations. Is able to implement the theoretical provisions of the discipline in practical calculations, analyze and compare the data of the objects of activity of the specialist on the basis of acquired knowledge and skills from this and related disciplines. Knows modern technologies and methods of calculations in this discipline. During the training during the practical classes, when performing individual / control tasks he showed the ability to solve tasks independently, to be actively involved in discussions, can defend his own position in the issues and decisions under consideration. A decrease in the 100-point mark may be due to insufficient disclosure of issues related to the discipline being studied, but beyond the scope of the syllabus provided by the discipline, or the applicant may be insecure in interpreting theoretical positions or complex practical tasks.	High Fully meets the requirements for knowledge, skills and abilities set out in the syllabus of the discipline. The applicant's own suggestions in assessing and solving practical problems increases his ability to use the knowledge he gained in the study of other disciplines, as well as knowledge acquired in independent in-depth study of issues related to the discipline being studied.	Excellent (A)
82-89	The applicant demonstrates good knowledge, has a good knowledge of the material corresponding to the program of the discipline, on their basis analyzes possible situations and is able to apply theoretical principles in solving practical problems, but admits some inaccuracies. He is able to correct mistakes, the number of which is insignificant. Knows modern technologies and methods of calculations in this discipline. During the training during the practical classes, when performing individual / control tasks and explaining the decisions made, gives comprehensive explanations.	Sufficient Provides the applicant with the independent decision of the basic practical problems in the conditions when the initial data in them change in comparison with the examples considered at studying of discipline.	Good (B)
74-81	The applicant is generally well versed in the material, knows the basic principles of the material that corresponds to the program of the discipline, makes an analysis of possible situations and is able to apply in solving typical practical problems, but admits some inaccuracies. Is able to explain the main provisions of the tasks and give the correct answers when changing the result with a given change in the initial parameters. Errors in answers / decisions / calculations are not systemic. Knows the characteristics of the main provisions that are crucial in conducting practical classes, in performing individual / control tasks and explaining decisions, within the discipline being studied.	Sufficient Specific level, according to the studied material of the discipline program. Additional questions about the possibility of using theoretical provisions for practical use are difficult.	Good(C)
64-73	The applicant has mastered the basic theoretical material provided by the program of the discipline, and understands the solution of standard practical tasks, has suggestions for the direction of their solutions. Understands the main provisions of the course, can solve similar problems with those discussed with the teacher, but makes a significant number of inaccuracies and gross errors that can be corrected with the help of the teacher.	Middle Provides a fairly reliable level of reproduction of the main provisions of the discipline.	Satisfactory (D)
60-63	The applicant has certain knowledge provided in the program of the discipline, has the basic provisions that are studied at a level that is defined as the minimum allowable. Using the basic theoretical principles, the applicant has difficulty explaining the rules for solving practical / computational problems of the discipline. Execution of practical (individual, control) tasks is significantly formalized: there is compliance with the algorithm, but there is no deep understanding of the work and relationships with other disciplines.	Middle Is the minimum allowable in all components of the discipline program.	Satisfactory (E)
35-59	The applicant can reproduce individual fragments of the course. Despite the fact that the applicant completed the program of the discipline, he worked passively, his answers during practical work are mostly incorrect, unfounded. The applicant does not have a complete understanding of the material on the discipline.	Low Does not provide practical implementation of the tasks that are formed during the study of the discipline.	Unsatisfactory with the possibility of re-examination (FX)


0-34	The applicant did not fully meet the requirements of the curriculum. His knowledge at the final stages of training is fragmentary.	<p>Unsatisfactory The applicant is not prepared to independently solve problems that outline the purpose and objectives of the discipline.</p>	Unsatisfactory with mandatory re-study of the discipline (F)
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The developer(s) of the syllabus of the educational discipline


signature

Poliakova Yu.
ПИБ

Head of Department


signature

Shevchuk V.

Syllabus supplement (required)

Recommended sources of information for the 2022-23 school year

Name topics	Recommended sources of information on the topic (basic literature, supporting literature, information resources on the Internet)
<p>Topic 1. Special features of international economic cooperation in the field of transfer of technologies and objects of patent law</p>	<ol style="list-style-type: none"> 1. Мокій А.І., Бабеш І.Г., Полякова Ю.В. Комерціалізація технологій та об'єктів патентного права. Львів: «Магнолія 2006», 2021. 272 с. 2. Аксиотина А.В., Нестерцова-Собакарь О.В., Тропін В.В. та ін. Інтелектуальна власність: навч. посібник [за заг. ред. Нестерцової-Собакарь О.В.]. Дніпро: Дніпроп. держ. ун-т внутр. справ, 2017. 140 с. 3. Бріннолфссон Е. Друга епоха машин / Бріннолфссон Е., Макафі Е. – К.: FUND, 2016. 236 с. 4. Speser Ph. L. The Art and Science of Technology Transfer. Publisher Wiley, 2016. 408 p. 5. Полякова Ю. В. Основные черты современного технологического развития. Bulletin of Yerevan University. Sociology. Economics. 2016. №1. С. 54-59. 6. Poliakova Ju., Shaida O., Steranov A. Patenting activities and technological development in the global economy. Вчені записки ТНУ ім. В.І. Вернадського. Серія: Економіка і управління". 2020. Том 31 (70). №4. С. 16-19. 7. Chatterji M. Technology Transfer in the Developing Countries / Manas Chatterji. – London: Palgrave Macmillan, 2018. – 383 p. URL: https://doi.org/10.1007/978-1-349-20558-5 8. Glossary of Commercialization Terminology. URL: https://web.stanford.edu/group/trd/TTran/Air/glossary.html
<p>Topic 2. Legal aspects of technology transfer and regulation of use of intellectual property objects</p>	<ol style="list-style-type: none"> 1. Україна. Закон. Про державне регулювання діяльності у сфері трансферу технологій № 143-V від 14 вересня 2006 р. Інтелектуальна власність. 2006. №10. С.82-92. 2. Україна. Закон. Про загальнодержавну комплексну програму розвитку високих наукоємних технологій № 1676-IV від 9 квітня 2004 р. URL: http://www.rada.kiev.ua. 3. Полякова Ю. В., Олашин М. М. Всесвітня організація інтелектуальної власності: правові особливості та функції аспекти. Матеріали міжнародної науково-практичної конференції “Development of scientific and practical approaches in the era of globalization”(Вересень, 28-30, 2020). Boston, USA 2020. 241 p. С. 99-103. 4. ДП “Український інститут інтелектуальної власності” (Укрпатент). URL: https://ukrpatent.org/uk. 5. Stoianoff N. Commercialisation of Intellectual Property / Natalie Stoianoff, Fred Chilton and Ann Monotti. – LexisNexis Butterworths, 2019. 304 p. 6. Fedotenko V., Golikova O., Kisil N., Klyumova N., Yarkina N. and others. Expert research of scientific works as objects of copyright: problems of theory and practice: monograph. Kyiv: Lira-K, 2020. 92 p. 7. Полякова Ю. В., Олашин М. М. Всесвітня організація інтелектуальної власності: правові особливості та функції аспекти. Матеріали II Міжнародної науково-практичної конференції “Development of scientific and practical approaches in the era of globalization”(Вересень, 28-30, 2020). Boston, USA 2020. pp. 99-103. 8. Полякова Ю. В. Економіко-правові аспекти інтелектуальної власності. Збірник наукових праць за матеріалами III науково-практичної Інтернет конференції “Управління проектами. Ефективне використання результатів наукових досліджень та об'єктів інтелектуальної власності”. НМетАУ, УКРNET, НДІВ НАПрН України, Дніпро: Юрсервіс, 2021. С. 336-339.
<p>Topic 3. Modern forms and means of technology exchange</p>	<ol style="list-style-type: none"> 1. Мокій А.І., Бабеш І.Г., Полякова Ю.В. Комерціалізація технологій та об'єктів патентного права. Львів: «Магнолія 2006», 2021. 272 с. 2. Чмир О. С. Огляд наукових підходів до визначення суті та моделей інноваційної діяльності і трансферу технологій. К.: УКРІНТЕІ, 2016. 120 с. 3. Рада з розвитку інновацій (офіційний сайт). URL: https://www.kmu.gov.ua/npras/250451778. 4. ДП “Український інститут інтелектуальної власності” (Укрпатент). URL: https://ukrpatent.org/uk 5. Stoianoff N. Commercialisation of Intellectual Property / Natalie Stoianoff, Fred Chilton and Ann Monotti. – LexisNexis Butterworths, 2019. 304 p. 6. Інструменти та методи комерціалізації інноваційної продукції : монографія / [за загальною редакцією С. М. Ілляшенка, О. А. Біловодської]. Суми : Тритонія, 2018. 380 с. 7. Кузьмін О., Литвин І. Венчурний бізнес : особливості розвитку та глобалізаційні аспекти : підручник. Львів : Видавництво Львівської політехніки, 2019. 410 с.
<p>Topic 4. Organisation of the</p>	<ol style="list-style-type: none"> 1. Мокій А.І., Бабеш І.Г., Полякова Ю.В. Комерціалізація технологій та об'єктів патентного права. Львів: «Магнолія 2006», 2021. 272 с.

<p>process of commercialization of technologies</p>	<p>2. Інноваційна діяльність та трансфер технологій: навчальний посібник [М. Ф. Дмитриченко, М. М. Дмитрієв, С. О. Корітчук, Д. І. Дятчик, Т. В. Покошевнишська]. К.: НТУ, 2016. 100 с.</p> <p>3. Чмир О. С. Огляд наукових підходів до визначення суті та моделей інноваційної діяльності і трансферу технологій. К.: УкрІНТЕІ, 2016. 120 с.</p> <p>4. Бочарова Н. В. Конституціоналізація інтелектуальної власності в умовах інформаційного суспільства Дніпро: Інновація, 2019. 256 с.</p> <p>5. ДП “Український інститут інтелектуальної власності” (Укрпатент). URL: https://ukrpatent.org/uk</p> <p>6. Інструменти та методи комерціалізації інноваційної продукції : монографія / [за загальною редакцією С. М. Ілляшенка, О. А. Біловодської]. Суми : Триторія, 2018. 380 с.</p>
<p>Topic 5. Estimation of the value of intellectual property rights</p>	<p>1. Полякова Ю. В. Економіко-правові аспекти інтелектуальної власності. Збірник наукових праць за матеріалами III науково-практичної Інтернет конференції “Управління проектами. Ефективне використання результатів наукових досліджень та об’єктів інтелектуальної власності” (17-18 березня 2021 р.). НМетАУ, УКРНЕТ, НДІВ НАПрН України, Дніпро: Юрсервіс, 2021. С. 336-339.</p> <p>2. Мокій А.І., Бабєць І.Г., Полякова Ю.В. Комерціалізація технологій та об’єктів патентного права. Львів: «Магнолія 2006», 2021. 272 с.</p> <p>3. Чмир О. С. Огляд наукових підходів до визначення суті та моделей інноваційної діяльності і трансферу технологій / Чмир О. С. К.: УкрІНТЕІ, 2016. – 120 с.</p> <p>4. Glossary of Commercialization Terminology. URL: https://web.stanford.edu/group/trd/TTtran/Air/glossary.html</p> <p>5. Kennedy W. So what? who cares? why you?: A Methodology to Find the Business Value of New Ideas / Wendy Kennedy. URL: https://wendykennedy.com/wiki-certify/so-what-who-cares-why-you-the-book.</p>
<p>Topic 6. Features of strategic marketing of technologies and high-tech products</p>	<p>1. Коваль І. Ф. Комерціалізація прав інтелектуальної власності : навчальний посібник. Київ : Юрінком Інтер, 2018. 271 с.</p> <p>2. Мокій А.І., Бабєць І.Г., Полякова Ю.В. Комерціалізація технологій та об’єктів патентного права. Львів: «Магнолія 2006», 2021. 272 с.</p> <p>3. Європейська рада інновацій (офіційний сайт). URL: https://ecp-sme.kr.ua.</p> <p>4. Всесвітня організація інтелектуальної власності (ВОІВ). URL: https://geneva.mf.gov.ua/rosolstvo/2610-wiproa/?tag=yevropejska-rada-innovacziy.</p> <p>5. Полякова Ю. В. Трансфер технологій : навчальний посібник. Львів : Видавництво ЛКА, 2011. 168 с</p> <p>Кузьмін О., Литвин І. Венчурний бізнес : особливості розвитку та глобалізаційні аспекти : підручник. Львів : Видавництво Львівської політехніки, 2019. 410 с.</p> <p>6. Інноваційне підприємництво : креативність, комерціалізація, екосистема : навчальний посібник для вищих навчальних закладів [Ю.М. Бажал ... [та ін.] ; за редакцією Ю.М. Бажала. Київ : Пульсари, 2015. 278 с.</p>
<p>Topic 7. Participation of economic entities of Ukraine in international transfer of technologies</p>	<p>1. Полякова Ю. В. Трансфер технологій : навчальний посібник. Львів : Видавництво ЛКА, 2011. 168 с.</p> <p>2. Полякова Ю. В., Олашин М. М. Міжнародні аспекти захисту прав інтелектуальної власності. Матеріали міжнародної науково-практичної конференції «Становлення громадянського суспільства в Україні: нормативно-правове підґрунтя» (1-2 травня 2020 р., м. Дніпро). 2020. С 148-151.</p> <p>3. Комітет з питань освіти, науки та інновацій (офіційний сайт). URL: http://kno.rada.gov.ua.</p> <p>4. Національний офіс інтелектуальної власності. URL: http://nipo.org.ua.</p> <p>5. Poliakova Ju., Shaida O., Stepanov A. Patenting activities and technological development in the global economy. Вчені записки ТНУ ім. В.І. Вернадського. Серія: Економіка і управління". 2020. Том 31 (70). №4. С. 16-19.</p> <p>6. Мокій А.І., Бабєць І.Г., Полякова Ю.В. Комерціалізація технологій та об’єктів патентного права. Львів: «Магнолія 2006», 2021. 272 с.</p> <p>7. Полякова Ю. В. Пріоритети забезпечення конкурентоспроможності регіонів України: монографія. Львів: ДУ Інститут регіональних досліджень імені М. І. Долішнього НАН України, 2018. 336 с.</p>