

Karta opisu przedmiotu

Informacje podstawowe

Kierunek studiów	Cykl kształcenia
Law, IP and New Technologies	2023/24
Ścieżka	Kod przedmiotu
Jednostka organizacyjna	Języki wykładowe
Wydział Prawa i Administracji	Polski
Poziom kształcenia	Dyscypliny
law, IP and New Technologies	Nauki prawne
Forma studiów	Klasyfikacja ISCED
studia stacjonarne	0421Prawo
Profil studiów ogólnoakademicki	
Obligatoryjność fakultatywny	

Okres Summer semester, III-V year of law, 1 st year of IP and New Technologies	Forma weryfikacji uzyskanych efektów uczenia się egzamin Sposób realizacji i godziny zajęć [5 modules, 75 hours]	Liczba punktów ECTS [3]
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Cele kształcenia dla przedmiotu

	Course "Create – Protect – Innovate: Bringing ideas to market" has been developed and is delivered by European Patent Office. It aims at providing comprehensive knowledge on patent law complementing existing IP education with
1	hands-on practitioners' perspective based on case studies with focus on further commercialization. Part II of the course provides students with advanced knowledge and put more emphasis on commercialization.

Efekty uczenia się dla przedmiotu

Kod	Efekty w zakresie	Kierunkowe efekty uczenia się	Metody weryfikacji
Wiedzy – Student zna i rozumie:			

W1	The graduate knows and understands the current challenges of patent law	PRA_K3_W05	Written exam		
W2	The graduate knows and understands the principles of obtaining patent protection, in particular in the context of innovative activities and commercialization processes	PRA_K3_W08	Written exam		
W3	The graduate knows and understands the framework of European patent law	PRA_K3_W04	Written exam		
	Umiejętności – Student potrafi:				
U1	The graduate is able to convey knowledge and argue using specialized patent law terminology in English	PRA_K3_U04	Written exam		
U2	The graduate is able to make a preliminary qualification for patent protection (search for patent information and assess patentability) and formulate a commercialization strategy	PRA_K3_U03	Written exam		
Kompetencji społecznych – Student jest gotów do:					
K1	The graduate is ready to improve his/her competences in the field of innovation protection and commercialization	PRA_K3_K04	Written exam		
К2	The graduate is ready to take a justified position on differences in the application of patent law	PRA_K3_K05	Written exam		

Bilans punktów ECTS

Forma aktywności studenta	Średnia liczba godzin* przeznaczonych na zrealizowane rodzaje zajęć	
online lectures, video recordings	15	
preparation for classes	10	
judicature analysis	10	
legal text analysis	10	
self study	10	
online forum / office hours / consultations	8,5	
live sessions	4,5	
Exam	7	
Łączny nakład pracy studenta 55 godzin		2 ECTS

Liczba	aodzin	kontaktowych	
	300000		

* godzina (lekcyjna) oznacza 45 minut

Treści programowe

Lp.	Treści programowe	Efekty uczenia się dla przedmiotu
1	 Module 1 Grant of patents This module provides an overview of the patent grant procedure. The patentability requirements are explained with special emphasis on "novelty" and "inventive step". Case studies deal with the assessment of novelty and the "problem-solution approach". End-to-end patent grant procedure Patentability requirements at the EPO Patentable subject-matter Patent application requirements Invention requirements Amendments Understanding claims and drafting Case Studies: Environmentally friendly closed-loop shower, invented by a European Inventor Award finalist Turning pineapple leaves into a sustainable alternative to leather, invented by a European Inventor Award finalist The toy ball patent 	W1, W2, W3, U1, U2, K2
2	 Module 2 Enforcement of patents A key aspect of patent protection is the understanding that it will be enforced in the event of infringement or the threat of infringement. This module provides an overview of the different means of enforcing patents and what a litigation procedure could look like. In addition, this module illustrates the possible alternatives that can be pursued if a less costly and less time-consuming solution is sought. Patents and their role in business What a patent protects ("scope" of a patent) Introduction to the various types of patent infringement Fundamental aspects of infringement proceedings Validity of a patent as prerequisite for enforcement Licensing Alternatives to patent infringement proceedings Case Studies: Wind turbines and how to understand claims The invention of wifi 	W1, W2, W3, U1, K2
3	 Module 3 Scouting and assessment of technology This module aims to teach students how to identify new and competing technologies that could affect their own inventions and business cases. Using current and past trends, it involves monitoring and predicting emerging technologies and identifying the technologies most likely to be disruptive in the future. It also covers technology transfer and the role of a Technology Transfer Office. What technology transfer is and how it works within a university/research laboratory setting The role of a Technology Transfer Office Assessment of who owns the rights to an invention How to perform a technology search and why someone would want to Case Studies: Revolutionary magnetic resonance imaging (MRI) techniques, developed by researchers at a German research institute Laser system to remove sea lice from salmon, produced by a Norwegian engineering company Plasters which can treat open wounds, developed in a Turkish university laboratory Anti-lock braking system for pedal bikes, produced by an Italian firm 	W2, U1, U2 K1

	Module 4 TD commercialisation	
4	Module 4 IP commercialisation As an intangible asset, IP can be sold, leased, licensed, assigned or used as a security for investors and lenders. These are all examples of IP commercialisation, the process of bringing IP assets to the marketplace to be exploited for profit and business growth. This module explores mechanisms through which value can be extracted from IP and the considerations that should be taken - How IP can be commercialised - How to choose the right types of IP commercialisation - What it takes to come to a licence deal - How raising capital for a technology start-up is leveraged by patents; how it is a form of IP commercialisation and consequently important for the business success in general - Basics of valuing IP assets Case Studies: - Lely – cow-milking robot - AMSilk – spider silk fibres for shoes and nail polish - Lontra – blade air compressor - Perceive3D – imaging technology for surgeons - Optinose – curing airborne diseases - Baseclick – click chemistry - ELASH MPL – imaging of medical scape	W2, U1, U2, K1
5	 PLASH MRT - Inlaging of medical scans Module 5 Use of IPRs IP covers a range of different technical fields, each with their own particularities. This module enables students to deepen their knowledge of IP and IP commercialisation based on a variety of case studies in a particular technical field. Rationale for protecting inventions Deciding on the appropriate IP strategy Examples of successful patented inventions from different technical fields, including the benefits and challenges of patenting The role of IP in business strategy and the commercialisation process Case Studies: Programmable LEGO robotic toys Gluten substitutes from corn Perceive3D surgical navigation device Stingray - eliminating sea lice from salmon fishing Organic semiconductor Modified mRNA Green hydrogen from sunlight and air – Handheld manually guided effector Fastener invention PURE Cotton wax 	W1, W2, W3, U1, U2, K1

Informacje rozszerzone

Metody nauczania:

wykład konwencjonalny, wykład z prezentacją multimedialną, konsultacje, rozwiązywanie zadań, analiza przypadków, dyskusja, burza mózgów, analiza tekstów.

Rodzaj zajęć	Formy zaliczenia	Warunki zaliczenia przedmiotu
lecture with multimedia presentation, consultations, case analysis, discussion, text analysis	Written exam and quizzes	80% the final marked exercise (5 questions, marked from 1 to 5), 10% the quizzes at the end of each Module, 10% the participation to the forum discussion. EPO certificate to be downloaded after completion of all activities

Wymagania wstępne i dodatkowe

knowledge of English at level B2



Create-Protect-Innovate Bringing ideas to market: Part II | Syllabus

In this course, you will gain an understanding of the main categories of intellectual property (IP) rights, their primary features and how to apply these rights. The emphasis is on patents and on the "what", "when" and "how" of protecting inventions. Further topics include how to search for patents and how to develop an IP strategy.

Modules	Topics covered	Case Studies	Key takeaways	
Module 1 Grant od patents	 End-to-end patent grant procedure Patentability requirements at the EPO Patentable subject-matter Patent application requirements Invention requirements Amendments Amendments Understanding claims and drafting 	 Environmentally friendly closed-loop shower, invented by a European Inventor Award finalist Turning pineapple leaves into a sustainable alternative to leather, invented by a European Inventor Award finalist The toy ball patent 	 There are different routes for filing a patent application and they are chosen by the applicant according to their business strategy in each case. A patent application should be filed at the right moment, when enough information about the invention is already available and it has not yet been disclosed to anybody. The claims define the invention. Prior art means any disclosure available before the filing of a patent application. Once filed, an application goes through different steps until grant. Post-grant opposition proceedings are possible and are centralised at the FPO. After the opposition period, patents can only be challenged in front of national courts. 	 Granted patents fulfil all the requirements of the EPC. The grant or refusal of an application will follow communication between applicant and patent examiner. The subject-matter defined by the granted claims will be new and inventive over the prior art. Specific methodologies exist for the assessment of these requirements. Other important requirements are clarity, sufficiency of disclosure and unity. Applicants are not allowed to improve their position by making amendments not disclosed in the application as filed. Well-drafted applications provide a basis for any necessary amendments.
Module 2 Enforcement of patents	 Patents and their role in business What a patent protects ("scope" of a patent) Introduction to the various types of patent infringement Fundamental aspects of infringement proceedings Validity of a patent as prerequisite for enforcement Licensing Alternatives to patent infringement proceedings 	 Wind turbines and how to understand claims The invention of wifi 	 Patents are tools for securing business interests. Enforcing a patent is entirely the responsibility of the applicant. Use the independent claims to identify a potential infringer. Identify the right party as the potential infringer. There are many ways to enforce a patent and to resolve disputes. There is more to gain than money. Think strategically 	 What to do when you are the infringer. Always maintain dialogue with the other party.
Module 3 Scouting and assessment of technology	 What technology transfer is and how it works within a university/research laboratory setting The role of a Technology Transfer Office Assessment of who owns the rights to an invention How to perform a technology search and why someone would want to 	 Revolutionary magnetic resonance imaging (MRI) techniques, developed by researchers at a German research institute Laser system to remove sea lice from salmon, produced by a Norwegian engineering company Plasters which can treat open wounds, developed in a Turkish university laboratory Anti-lock braking system for pedal bikes, produced by an Italian firm 	 Technology transfer (TT) involves the movement of technology and know-how from one party to another. TT can play a crucial role in the commercialisation of early stage ideas. A Technology Transfer Office (TTO) is a unit specialising in TT. They exist in many companies and most universities and research institutes. Technology scouting is a useful tool in the evaluation of new technologies. 	 What to do when you are the infringer. Always maintain dialogue with the other party.
Module 4 IP commercialisation	How IP can be commercialised - How to choose the right types of IP commercialisation - What it takes to come to a licence deal - How raising capital for a technology start-up is leveraged by patents; how it is a form of IP commercialisation and consequently important for the business success in general - Basics of valuing IP assets	 Lely - cow-milking robot AMSilk - spider silk fibres for shoes and nail polish Lontra - blade air compressor Perceive3D - imaging technology for surgeons Optinose - curing airborne diseases Basedick - dick chemistry FLASH MRI - imaging of medical scans 	 IP commercialisation is an intrinsic part of the business model. A business model will change when the company grows and so will the IP commercialisation. Decisions regarding IP commercialisation can be structured and systematically assessed. The most successful commercialisation decision is a balanced one that delivers value for all stakeholders. 	 Patents are assets, providing sustainable business value, but can also be tools for leveraging negotiations. Marketing and negotiating are important skills for a start-up seeking monetisation. The valuation of IP is a complicated challenge and is ultimately the result of negotiation. Patents are the backbone of commercialisation by a technical venture.
Module 5 Use of IPRs	 Rationale for protecting inventions Deciding on the appropriate IP strategy Examples of successful patented inventions from different technical fields, including the benefits and challenges of patenting The role of IP in business strategy and the commercialisation process 	Programmable LEGO robotic toys Perceive3D surgical navigation device Organic semiconductor Green hydrogen from sunlight and air Fastener invention Pastener invention Pure PuRE Cotton wax	 There are different ways of commercialising IP. Developing an IP strategy is key for the successful commercialisation of inventions. Patents can be used to prevent others from copying your inventions. Licensing is a key commercialisation strategy. Patents can attract venture capital funds and investors. 	
Requirements	N/A			
Assessment	Test with multiple-choice questions at the end of each module. Active participation in live fora. Final exercise.			
Certification	EPO certificate to be downloaded after completion of all activities			

Module I: Grant of patents

Со	urse	info

Course code TBA Study mode Self-paced Category / Level Advanced level Duration 20 hours Course type E-Learning Required materials - Language of instruction English Assessment Test consisting of multiple-choice questions Fee No Certificate Yes, EPO Certificate Module overview This module provides an overview of the patent grant procedure. The patentability requirements are explained with special emphasis on "novelly" and "inventive step". Case studies deal with the assessment of novelty and the "problem-solution approach". - End-to-end patent grant procedure Format - End-to-end patent grant procedure - Patentability requirements Learners can complete Module I independently online at their own pace. The module consists of high-quality videos, podcasts and interactive educational elements. - Mmendments These explain the theory behind new concepts and case studies to help learners consolidate their knowledge. There are also interactive activities based on real-life cases, quizzes and a multiple-choice exam at the end of the module. In addition, a wide variety of resources are included for further study. To access the module, simply create an account with the e-learning centre of the EPO's European Patent Academy at e-courses.epo.org. Target audience Master's and PhD students. Requirements				
Category / Level Advanced level Duration 20 hours Course type E-Learning Required materials - Language of instruction English Assessment Test consisting of multiple- choice questions Fee No Certificate Yes, EPO Certificate Module overview This module provides an overview of the patent grant procedure. The patentability requirements are explained with special emphasis on "novelty" and "inventive step". Case studies deal with the assessment of novelty and the "problem-solution approach". Topics covered - Format Learners can complete Module I independently online at their own pace. The module consists of high-quality videos, podcasts and interactive educational elements. These explain the theory behind new concepts and provide exercises and case studies to help learners consolidate their knowledge. There are also interactive activities based on real-life cases, quizzes and a multiple-choice exam at the end of the module. In addition, a wide variety of resources are included for further study. To access the module, simply create an account with the e-learning centre of the EPO's European Patent Academy at <u>e-courses.epo.org</u> . Understanding claims Target audience Master's and PhD students. Requirements English	Course code	ТВА	Study mode	Self-paced
Course type E-Learning Required materials - Language of instruction English Assessment Test consisting of multiple-choice questions Fee No Certificate Yes, EPO Certificate Module overview This module provides an overview of the patent grant procedure. The patentability requirements are explained with special emphasis on "novelty" and "inventive step". Case studies deal with the assessment of novelty and the "problem-solution approach". - End-to-end patent grant procedure - Patentability requirements at the EPO Format Learners can complete Module I independently online at their own pace. The module consists of high-quality videos, podcasts and interactive educational elements. These explain the theory behind new concepts and provide exercises and case studies to help learners consolidate their knowledge. There are also interactive activities based on real-life cases, quizzes and a multiple-choice exam at the end of the module. In addition, a wide variety of resources are included for further study. To access the module, simply create an account with the e-learning centre of the EPO's European Patent Academy at e-courses.epo.org. Target audience Master's and PhD students. Requirements - Requirements - - Target audience Master's and PhD students. -	Category / Level	Advanced level	Duration	20 hours
Language of instruction English Assessment Test consisting of multiple-choice questions Fee No Certificate Yes, EPO Certificate Module overview Yes, EPO Certificate Topics covered This module provides an overview of the patent grant procedure. The patentability requirements are explained with special emphasis on "novelty" and "inventive step". Case studies deal with the assessment of novelty and the "problem-solution approach". Topics covered Endlish Format - Patentability requirements - Patentability requirements Learners can complete Module 1 independently online at their own pace. The module consists of high-quality videos, podcasts and interactive educational elements. These explain the theory behind new concepts and provide exercises and case studies to help learners consolidate their knowledge. There are also interactive activities based on real-life cases, quizzes and a multiple-choice exam at the end of the module. In addition, a wide variety of resources are included for further study. To access the module, simply create an account with the e-learning centre of the EPO's European Patent Academy at e-courses.epo.org. Target audience Master's and PhD students. Requirements - Requirements - -	Course type	E-Learning	Required materials	-
Fee No Certificate Yes, EPO Certificate Module overview This module provides an overview of the patent grant procedure. The patentability requirements are explained with special emphasis on "novelty" and "inventive step". Case studies deal with the assessment of novelty and the "problem-solution approach". - End-to-end patent grant procedure Format - Patentability requirements at the EPO - Patentability requirements at the EPO Format - Amendments - Invention requirements Learners can complete Module I independently online at their own pace. The module consists of high-quality videos, podcasts and interactive educational elements. These explain the theory behind new concepts and provide exercises and case studies to help learners consolidate their knowledge. There are also interactive activities based on real-life cases, quizzes and a multiple-choice exam at the end of the module. In addition, a wide variety of resources are included for further study. To access the module, simply create an account with the e-learning centre of the EPO's European Patent Academy at e-courses.epo.org. Farget audience Master's and PhD students. Requirements	Language of instruction	English	Assessment	Test consisting of multiple- choice questions
Module overview Topics covered This module provides an overview of the patent grant procedure. The patentability requirements are explained with special emphasis on "novelty" and "inventive step". Case studies deal with the assessment of novelty and the "problem-solution approach". - Patentability requirements at the EPO Format - Patent application requirements Learners can complete Module I independently online at their own pace. The module consists of high-quality videos, podcasts and interactive educational elements. These explain the theory behind new concepts and provide exercises and case studies to help learners consolidate their knowledge. There are also interactive activities based on real-life cases, quizzes and a multiple-choice exam at the end of the module. In addition, a wide variety of resources are included for further study. To access the module, simply create an account with the e-learning centre of the EPO's European Patent Academy at e-courses.epo.org. Target audience Master's and PhD students.	Fee	No	Certificate	Yes, EPO Certificate
this course. Previous experience of e-learning is	Language of instructionEnglishFeeNoModule overviewThis module provides an overview of the patent grant procedure. The patentability requirements are explained with special emphasis on "novelty" and "inventive step". Case studies deal with the assessment of novelty and the "problem-solution approach".Format Learners can complete Module I independently online at their own pace. The module consists of high-quality videos, podcasts and interactive educational elements. These explain the theory behind new concepts and provide exercises and case studies to help learners consolidate their knowledge. There are also interactive activities based on real-life cases, quizzes and a multiple-choice exam at the end of the module. In addition, a wide variety of resources are included for further study. To access the module, simply create an account with the e-learning centre of the EPO's European Patent Academy at e-courses.epo.org.Target audience Master's and PhD students.Requirements There are no formal requirements for participating in		 Topics covered End-to-end patent grar Patentability requirements Patent application requirements Amendments Understanding claims 	ant procedure ents at the EPO tter uirements and drafting



Europäisches Patentamt European Patent Office Office européen des brevets

Module II: Enforcement of patents Course info

Course code	ТВА	Study mode	Self-paced
Category / Level	Advanced level	Duration	15 hours
Course type	E-Learning	Required materials	-
Language of instruction	English	Assessment	Test consisting of multiple- choice questions
Fee	No	Certificate	Yes, EPO Certificate

Module overview

A key aspect of patent protection is the understanding that it will be enforced in the event of infringement or the threat of infringement. This module provides an overview of the different means of enforcing patents and what a litigation procedure could look like. In addition, this module illustrates the possible alternatives that can be pursued if a less costly and less time-consuming solution is sought.

Format

Learners can complete Module II independently online at their own pace. The module consists of high-quality videos, podcasts and interactive educational elements. These explain the theory behind new concepts and provide exercises and case studies to help learners consolidate their knowledge. There are also interactive activities based on real-life cases, quizzes and a multiple-choice exam at the end of the module. In addition, a wide variety of resources are included for further study. To access the module, simply create an account with the e-learning centre of the EPO's European Patent Academy at <u>e-courses.epo.org</u>.

Target audience

Master's and PhD students.

Requirements

There are no formal requirements for participating in this course. Previous experience of e-learning is helpful, but not required.

Topics covered

- Patents and their role in business
- What a patent protects ("scope" of a patent)
- Introduction to the various types of patent infringement
- Fundamental aspects of infringement proceedings
- Validity of a patent as prerequisite for enforcement
- Licensing
 - Alternatives to patent infringement proceedings





Course code	ТВА	Study mode	Self-paced
Category / Level	Advanced level	Duration	10 hours
Course type	E-Learning	Required materials	-
Language of instruction	English	Assessment	Test consisting of multiple- choice questions
Fee	No	Certificate	Yes, EPO Certificate
Module overview This module aims to teach students how to identify new and competing technologies that could affect their own inventions and business cases. Using current and past trends, it involves monitoring and predicting emerging technologies and identifying the technologies most likely to be disruptive in the future. It also covers technology transfer and the role of a Technology Transfer Office.		 Topics covered What technology transfer is and how it works within a university/research laboratory setting The role of a Technology Transfer Office Assessment of who owns the rights to an invention How to perform a technology search and why someone would want to 	
Format Learners can complete Module III independently online at their own pace. The module consists of high-quality videos, podcasts and interactive educational elements. These explain the theory behind new concepts and provide exercises and case studies to help learners consolidate their knowledge. There are also interactive activities based on real-life cases, quizzes and a multiple-choice exam at the end of the module. In addition, a wide variety of resources are included for further study. To access the module, simply create an account with the e-learning centre of the EPO's European Patent Academy at <u>e-courses.epo.org</u> .			
Target audience Master's and PhD students.			
Requirements There are no formal requirements this course. Previous experience helpful, but not required.	for participating in of e-learning is		



Module IV: IP commercialisation Course info

Course code	ТВА	Study mode	Self-paced		
Category / Level	Advanced level	Duration	20 hours		
Course type	E-Learning	Required materials	-		
Language of instruction	English	Assessment	Test consisting of multiple- choice questions		
Fee	No	Certificate	Yes, EPO Certificate		
Module overview		Topics covered			
As an intangible asset, IP can be	sold, leased,	- How IP can be commercialised			
licensed, assigned or used as a se	ecurity for investors	- How to choose the right types of IP commercialisation			
and lenders. These are all examp	les of IP	- What it takes to come to a licence deal			
commercialisation, the process of	bringing IP assets to	- How raising capital for	a technology start-up is		
the marketplace to be exploited for	or profit and business	leveraged by patents;	how it is a form of IP		
growth. This module explores mee	chanisms through	commercialisation and	commercialisation and consequently important the		
which value can be extracted from	n IP and the	business success in general			
considerations that should be take	en into account when	- Basics of valuing IP assets			
choosing how to commercialise IF					
Format					
Learners can complete Module IV	independently online				
at their own pace. The module co	nsists of high-quality				
videos, podcasts and interactive e	educational elements.				
These explain the theory behind n	new concepts and				
provide exercises and case studie	es to help learners				
consolidate their knowledge. Ther	e are also interactive				
activities based on real-life cases,	quizzes and a				
multiple-choice exam at the end o	f the module. In				
addition, a wide variety of resourc	es are included for				
further study. To access the module, simply create an					
account with the e-learning centre of the EPO's					
European Patent Academy at e-co	ourses.epo.org.				
Target audience					
Master's and PhD students					
Requirements					
There are no formal requirements	for participating in				
this course. Previous experience of	of e-learning is				
helpful, but not required.					

European Patent Office Office européen des brevets





Course info	
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Course code	ТВА	Study mode	Self-paced
Category / Level	Advanced level	Duration	10 hours
Course type	E-Learning	Required materials	-
Language of instruction	English	Assessment	Test consisting of multiple- choice questions
Fee	No	Certificate	Yes, EPO Certificate
Module overview IP covers a range of different tech their own particularities. This mod to deepen their knowledge of IP a commercialisation based on a var a particular technical field. Format Learners can complete Module V at their own pace. The module co videos, podcasts and interactive e These explain the theory behind r provide exercises and case studie consolidate their knowledge. There activities based on real-life cases, multiple-choice exam at the end of addition, a wide variety of resource further study. To access the modulaccount with the e-learning centre European Patent Academy at e-co Target audience Master's and PhD students. Requirements There are no formal requirements this course. Previous experience of helpful, but not required.	inical fields, each with ule enables students nd IP iety of case studies in independently online nsists of high-quality educational elements. new concepts and es to help learners re are also interactive quizzes and a of the module. In es are included for ule, simply create an e of the EPO's ourses.epo.org.	 Topics covered Rationale for protecting Deciding on the approp Examples of successfudifferent technical field challenges of patenting The role of IP in busine commercialisation proc 	g inventions priate IP strategy ally patented inventions from s, including the benefits and g ess strategy and the cess

