



Create – Protect – Innovate: Bringing ideas to market. Part I

Karta opisu przedmiotu

Informacje podstawowe

Kierunek studiów prawo	Cykl kształcenia 2023/24
Ścieżka	Kod przedmiotu
Jednostka organizacyjna Wydział Prawa i Administracji	Języki wykładowe Polski
Poziom kształcenia jednolite magisterskie, IP and New Technologies	Dyscypliny Nauki prawne
Forma studiów studia stacjonarne	Klasyfikacja ISCED 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 hands-on practitioners' perspective based on case studies with focus on further commercialization. Part I of the course provides basic knowledge and focuses on patent essentials and patent information
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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
K2	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 hours
	2 ECTS

Liczba godzin kontaktowych	20 hours	1 ECTS
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* godzina (lekcyjna) oznacza 45 minut

Treści programowe

Lp.	Treści programowe	Efekty uczenia się dla przedmiotu
1	<p>Module I Introduction to IP - provides an introduction to intellectual property rights (IPRs), why they exist and how they protect intangible assets. Case studies present examples of how IPRs are used in practice to protect some of the latest innovations and how IPRs can be integrated into the business strategy of a company.</p> <ul style="list-style-type: none"> - The nature of knowledge and know-how - Legally protecting intangible goods - Different types of IP rights and their uses - Benefits of IP rights <p>Case Studies:</p> <ul style="list-style-type: none"> - Environmentally friendly closed-loop shower, invented by a European Inventor Award finalist - Woven carbon fibre materials with a range of applications, including to cover the rotor blades of Ingenuity, NASA's first helicopter deployed to Mars 	W1, W2, W3, U1, U2, K2
2	<p>Module II: Patent essentials</p> <p>Module II enables learners to gain a foundational knowledge of patents and the role that patents play in supporting innovation. The module also introduces learners to the concept of patentability, the substantive requirements for a patent application and how patent applications are examined in the patent grant process. Finally, learners are made aware of the benefits that the patent system brings to society and the economy.</p> <ul style="list-style-type: none"> - What is a patent? - Role and relevance of patents - Patentability requirements - Exceptions and exclusions from patentability - The patent system and its role in fostering innovation and economic growth - Requirements for patent applications - What to consider before filing - What happens during the grant procedure <p>Case Studies:</p> <ul style="list-style-type: none"> - A process for turning pineapple leaves into a sustainable alternative to leather, invented by a European Inventor Award finalist - Flexible solar cells for portable devices, invented by winners of the European Inventor Award 	W1, W2, W3, U1, U2, K2
3	<p>Module 3 Introduction to patent information</p> <p>Module III provides an overview of patent information, beginning with the characteristics and structure of patent documents. Learners are familiarised with the difference between prior art and legal event data as well as the basics of patent searching and patent databases. Finally, learners are made aware of everyday situations in which patent information makes a difference.</p> <ul style="list-style-type: none"> - Why patent information is important - The structure of patent documents - The difference between prior art and legal event information - Everyday situations in which patent information matters - How to find and use patent information <p>Case Studies:</p> <ul style="list-style-type: none"> - Energy-saving rotary air compressor, invented by a European Inventor Award finalist - A method for producing gold nanoparticles using algae extract 	W1, W2, W3, U1, U2
4	<p>Module 4 Patent information in practice</p> <p>Module IV provides insights into how to use patent information in practice. In the light of several case studies, learners become familiar with how to design search strategies using EPO databases such as Espacenet.</p> <ul style="list-style-type: none"> - The benefits of patent information in the innovation process - Prior art searches and patent monitoring in practice 	W1, W2, W3, U1, U2

	<ul style="list-style-type: none"> - Freedom-to-operate analysis and patent intelligence in a nutshell <p>Case Studies:</p> <ul style="list-style-type: none"> - Fishing hook cover to save seabirds, invented by European Inventor Award Finalists - Sensor implants for improved blood glucose control - Electrolysers for hydrogen production 	
5	<p>Module 5 Developing an IP strategy</p> <p>Learners gain an understanding of the benefits of an informed IP strategy. They also learn how to develop their own IP strategy and how companies exploit, manage and commercialise their IP in order to be more competitive.</p> <ul style="list-style-type: none"> - The importance of IP strategy - IP rights management - Patent filing strategy and action - Costs and benefits of IP rights - Commercialising IP <p>Case Studies:</p> <ul style="list-style-type: none"> - Flexible solar cells for portable devices, invented by winners of the European Inventor Award - Plus IP strategy aspects of: Magnetic nanoparticles to diagnose disease, invented by a European Inventor Award finalist and A process for turning pineapple leaves into a sustainable alternative to leather, invented by a European Inventor Award finalist 	W2, 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 I | 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 Introduction to IP	<ul style="list-style-type: none"> – The nature of knowledge and know-how – Legally protecting intangible goods – Different types of IP rights and their uses – Benefits of IP rights 	<ul style="list-style-type: none"> – Environmentally friendly closed-loop shower, invented by a European Inventor Award finalist – Woven carbon fibre materials with a range of applications, including to cover the rotor blades of Ingenuity, NASA's first helicopter deployed to Mars 	<ul style="list-style-type: none"> – Knowledge and ideas have the characteristics of public goods (non-excludable, non-rivalrous). – In the knowledge economy, wealth creation is based on intangible resources. – Original ideas can be protected to secure ownership, including as a sound basis for sharing knowledge. – IP can be used to create exclusivity, foster innovation and help attract funding. – A single product can be protected using different types of IP rights (IPRs). – Specific national and international regulations apply to each type of IPR
Module 2 Patent essentials	<ul style="list-style-type: none"> – What is a patent? – Role and relevance of patents – Patentability requirements – Exceptions and exclusions from patentability – The patent system and its role in fostering innovation and economic growth – Requirements for patent applications – What to consider before filing – What happens during the grant procedure 	<ul style="list-style-type: none"> – A process for turning pineapple leaves into a sustainable alternative to leather, invented by a European Inventor Award finalist – Flexible solar cells for portable devices, invented by winners of the European Inventor Award 	<ul style="list-style-type: none"> – Patent protection means an invention cannot be commercially made, used, distributed, imported or sold by others without the patent owner's consent. – The general principle is that breach of these conditions constitutes infringement. – An inventor intending to patent their idea must keep their invention secret at least until the application is filed. – Patents foster innovation, commercial competitiveness and the dissemination of new technical knowledge. – Patentability requirements vary from country to country; the European Patent Convention (EPC) provides a comprehensive list of subject-matter excluded from patentability in Europe (Article 52, Article 53). – Though patent protection gives the patent owner an exclusive right, this right is limited both in territory and time. – The maximum term of a European patent is 20 years from the filing date.
Module 3 Introduction to patent information	<ul style="list-style-type: none"> – Why patent information is important – The structure of patent documents – The difference between prior art and legal event information – Everyday situations in which patent information matters – How to find and use patent information 	<ul style="list-style-type: none"> – Energy-saving rotary air compressor, invented by a European Inventor Award finalist – A method for producing gold nanoparticles using algae extract 	<ul style="list-style-type: none"> – Public patent information is a key pillar of the patent system and a rich source of technical, legal and business information. – Most technical details about inventions and technologies are only disclosed in patent documents. – Patent information should be used at all stages of the innovation process – There are numerous commercial and free-of-charge patent databases and search interfaces for retrieving and assessing patent information. – It's crucial to create an informed search strategy. – Search concepts based on patent classification symbols are a powerful tool.
Module 4 Patent information in practice	<ul style="list-style-type: none"> – The benefits of patent information in the innovation process – Prior art searches and patent monitoring in practice – Freedom-to-operate analysis and patent intelligence in a nutshell 	<ul style="list-style-type: none"> – Fishing hook cover to save seabirds, invented by European Inventor Award Finalists – Sensor implants for improved blood glucose control – Electrolysers for hydrogen production 	<ul style="list-style-type: none"> – Retrieving and assessing the technical content of patent documents is key to get an educated view of the state-of-the-art with respect to a technology or technical field. – Monitoring the pool of patent information is of crucial importance to stay on top of developments in your field. – The most widely used approach to assess the risk of infringing on others' IP rights is the freedom-to-operate analysis. – With patent intelligence, you can identify trends and extract meaningful information to support educated decision-making.
Module 5 Developing an IP strategy	<ul style="list-style-type: none"> – The importance of IP strategy – IP rights management – Patent filing strategy and action – Costs and benefits of IP rights – Commercialising IP 	<ul style="list-style-type: none"> – Flexible solar cells for portable devices, invented by winners of the European Inventor Award <p>Plus IP strategy aspects of:</p> <ul style="list-style-type: none"> – Magnetic nanoparticles to diagnose disease, invented by a European Inventor Award finalist – A process for turning pineapple leaves into a sustainable alternative to leather, invented by a European Inventor Award finalist 	<ul style="list-style-type: none"> – Successful IP strategy is both a consequence of and a strong impetus for your company's strategy. – It's important to have an IP strategy, and to implement it. – There are many cost and benefit aspects to consider before devising your IP strategy and in particular before filing a patent application. – The decision to commercialise rests on a variety of considerations, including the size of your company.
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		

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Part I



Module I: Introduction to IP

Course info

Course code	TBA	Study mode	Self-paced
Category / Level	Entry 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

Module I provides an introduction to intellectual property rights (IPRs), why they exist and how they protect intangible assets. Case studies present examples of how IPRs are used in practice to protect some of the latest innovations and how IPRs can be integrated into the business strategy of a company.

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 this course. Previous experience of e-learning is helpful, but not required.

Topics covered

- The nature of knowledge and know-how
- Protecting intangible goods
- Different types of IPRs and their uses
- Benefits of IPRs

Create – Protect – Innovate
Bringing ideas to market
Part I



Module II: Patent essentials

Course info

Course code	TBA	Study mode	Self-paced
Category / Level	Entry 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

Module II enables learners to gain a foundational knowledge of patents and the role that patents play in supporting innovation. The module also introduces learners to the concept of patentability, the substantive requirements for a patent application and how patent applications are examined in the patent grant process. Finally, learners are made aware of the benefits that the patent system brings to society and the economy.

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 e-courses.epo.org.

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

- What is a patent?
- Role and relevance of patents
- Patentability requirements
- Exceptions and exclusions from patentability
- The patent system and its role in fostering innovation and economic growth
- Requirements for patent applications
- What to consider before filing
- What happens during the grant procedure

Module III: Introduction to patent information

Course info

Course code	TBA	Study mode	Self-paced
Category / Level	Entry 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

Module III provides an overview of patent information, beginning with the characteristics and structure of patent documents. Learners are familiarised with the difference between prior art and legal event data as well as the basics of patent searching and patent databases. Finally, learners are made aware of everyday situations in which patent information makes a difference.

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 e-courses.epo.org.

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

- Why patent information is important
- The structure of patent documents
- The difference between prior art and legal event information
- Everyday situations in which patent information matters
- How to find and use patent information

Module IV: Patent information in practice

Course info

Course code	TBA	Study mode	Self-paced
Category / Level	Entry 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

Module IV provides insights into how to use patent information in practice. In the light of several case studies, learners become familiar with how to design search strategies using EPO databases such as Espacenet.

Format

Learners can complete Module IV 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 this course. Previous experience of e-learning is helpful, but not required.

Topics covered

- The benefits of patent information in the innovation process
- Prior art searches and patent monitoring in practice
- Freedom-to-operate analysis and patent intelligence in a nutshell

Create – Protect – Innovate
Bringing ideas to market
Part I



Module V: Developing an IP strategy

Course info

Course code	TBA	Study mode	Self-paced
Category / Level	Entry 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

Learners gain an understanding of the benefits of an informed IP strategy. They also learn how to develop their own IP strategy and how companies exploit, manage and commercialise their IP in order to be more competitive.

Format

Learners can complete Module V 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 this course. Previous experience of e-learning is helpful, but not required.

Topics covered

- The importance of IP strategy
- IPRs management
- Patent filing strategy and action
- Commercialising IP