

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet: Intelektualna lastnina v informacijski družbi
Course title: Intellectual property in information society

| Študijski program in stopnja Study programme and level | Študijska smer Study field | Letnik Academic year | Semester Semester |
|--|-------------------------------|-------------------------|----------------------|
| Informacijska družba, doktorski študijski program tretje stopnje | - | Prvi | Prvi |
| Information Society, third cycle Doctoral Study Programme | - | First | First |

Vrsta predmeta / Course type

Izbirni/ Optional

Univerzitetna koda predmeta / University course code:

1-ID-DR-IP-ILID-2020-07-31

| Predavanja Lectures | Seminar Seminar | Vaje Tutorial | Klinične vaje work | Druge oblike študija | Samost. delo Individ. work | ECTS |
|------------------------|--------------------|------------------|-----------------------|----------------------|-------------------------------|------|
| 10 | 10 | 20 | / | / | 410 | 15 |

Nosilec predmeta / Lecturer:

doc. dr. Dolores Modic

Jeziki / Languages:

Predavanja / Lectures: Slovenski / Slovenian, Angleški / English

Vaje / Tutorial: Slovenski / Slovenian, Angleški / English

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:

Ni posebnih pogojev

Prerequisites:

No special prerequisites.

Vsebina:

SPLOŠNI DEL**Teorije intelektualne lastnine**

Naravno pravo; utilitarne in ekonomske teorije; teorije menedžmenta; inovacijske teorije; distributivna in družbena pravičnost

Pravice intelektualne lastnine

Patenti (računalniški patenti); znamke; modeli; avtorske pravice; poslovne skrivnosti; druge pravice intelektualne lastnine

Content (Syllabus outline):

GENERAL PART**Intellectual property theories**

The Natural Rights Perspective; The Personhood Perspective; Utilitarian/Economic Theories; Innovation Theories; Distributive and Social Justice

Intellectual property rights

Patents (software patents), Trademarks, Designs, Copyrights, Trade secrets, Other rights

Inovacijske politike in prenos tehnologij

Intelektualna lastnina kot javno dobro

Mehanizmi; ekonomske teorije stroškov in koristi patentov; odprto inoviranje

Menedžment intelektualne lastnine v digitalni dobi

Inovacijski potencial pravic intelektualne lastnine; IP menedžment kot proces; strateški menedžment (pravice) intelektualne lastnine; združevanje patentov (patentne goščave, patentni bazeni)

POSEBNI DEL

Konkurenca, intelektualna lastnina in standardi

Standardni esencialni patenti (SEP); SEPi v IT; standardizacijske organizacije; FRAND pogoji

Patentna informatika, blockchain in pametne pogodbe

Merjenje inovacij; Intelektualna lastnina in big data
razdvoumljanje in drugi problemi; novi formati (npr. T.i. 'Povezani podatki' kot metoda objave strukturiranih podatkov z uporabo standardnih spletnih tehnologij)

Innovation policies and technology transfer

Intellectual Property as a Public Interest

Mechanism; Economic Theories of Costs and Benefits of Patents; Open innovation

Intellectual property (rights) management in the digital age

Innovation potential of IPR; IP management as a process, Strategizing IP; Patent thicket, patent pools

SPECIAL FOCI

Competition, Intellectual Property and Standard Setting

Standard-essential patents (SEP); SEPs in IT; Standard setting organizations; FRAND terms

Patent informatics, blockchain and smart contracts

Measuring innovation; IP and big data; disambiguation and other common problems of patent informatics, new formats (e.g. LOD as a method of publishing structured data using standard web technologies)

Temeljni literatura in viri / Readings:

Knjige/ Books

Menell, P. S., Lemley, M. A. & Merges, R. P. (2019). *Intellectual Property in the New Technological Age: 2019* – Especially Chapters 1 and 2. Retrieved from <https://ssrn.com/abstract=3415161> or <http://dx.doi.org/10.2139/ssrn.3415161>.

Modic, D. & Damij, N. (2018). *Towards Intellectual Property Rights Management: Back-office and Front-office Perspectives*. Springer.

Sherwood, R. M. (2019). *Intellectual property and economic development*. Routledge.

Članki / Articles

Baron, J. & Pohlmann, T. (2018). Mapping standards to patents using declarations of standard-essential patents. *Journal of Economics & Management Strategy*, 27(3), pp. 504–534.

Bozeman, B. (2000). Technology transfer and public policy: a review of research and theory. *Research policy*, 29(4–5), pp. 627–655.

Grupp, H. & Schmoch, U. (1999). Patent statistics in the age of globalisation: new legal procedures, new analytical methods, new economic interpretation. *Research Policy*, 28(4), pp. 377–396.

Mazzoleni, R. & Nelson, R. R. (1998). Economic theories about the benefits and costs of patents. *Journal of economic issues*, 32(4), pp. 1031–1052.

Perkmann, M., Tartari V., McKelvey M., Autio E., Broström, A., D'Este, P., Fini, R. et al. (2013). Academic engagement and commercialisation: A review of the literature on university–industry relations. *Research policy*, 42(2), pp. 423–442.

Shalaby, W. & Zadrozny, W. (2019). Patent retrieval: a literature review. *Knowledge and Information Systems*, pp. 1–30.

Shapiro, C. (2000). Navigating the patent thicket: Cross licenses, patent pools, and standard setting. *Innovation policy and the economy*, 1, pp. 119–150.

Konferenčni prispevki in poročila / Conference papers and reports

De la Rosa, J. L., Gibovic, D., Torres, V., Maicher, L., Miralles, F., El-Fakdi, A. & Bikfalvi, A. (2016). On intellectual property in online open innovation for SME by means of blockchain and smart contracts. *3rd Annual World Open Innovation Conf. WOIC*. Retrieved from <https://www.semanticscholar.org/paper/INNOVATION-FOR-SME-BY-MEANS-OF-BLOCKCHAIN-AND-Rosa-Gibovic/e2cd515acf268fc41879e5fc7d0e9be64971836b>.

Griliches, Z., Pakes, A. & Hall, B. H. (1986). *The value of patents as indicators of inventive activity*. NBER Working Paper No. 2083. Retrieved from <https://www.nber.org/papers/w2083>.

Cilji in kompetence:

Učna enota prispeva k razvoju naslednjih splošnih kompetenc:

- sposobnost identificiranja danega raziskovalnega problema, njegove analize ter možnih rešitev
- ustvarjanje novega znanja, ki pomeni relevanten prispevek k razvoju znanosti
- sposobnost oblikovanja in implementacije izvirnih znanstvenih rešitev danih družbenih problemov
- sposobnost obvladanja standardnih metod, postopkov in procesov raziskovalnega dela na različnih znanstvenih področjih – na preseku inovacijskih, menedžerskih in informacijskih znanosti

in predmetno-specifičnih kompetenc:

- sposobnost samostojnega znanstvenega dela na področju intelektualne lastnine
- sposobnost aplikacije metod patentne informatike na dani problem

Objectives and competences:

Learning unit contributes to the development of the following general competences:

- the ability to identify, analyze and construct solution for a given research problem
- the creation of new knowledge and contribution to the development of science
- the ability to design and implement novel scientific solutions for focal social problems
- mastery of standard methods, approaches and processes of scientific research in various scientific fields – in the intersection of innovation, management and information sciences

and subject-specific competences:

- the ability to conduct independent scientific work in the area of intellectual property
- the capability to apply patent informatics methodology to a given research problem

Predvideni študijski rezultati:

Znanje in razumevanje:

Študent/študentka:

- demonstrira poznavanje ključnih pojmov in teorije intelektualne lastnine
- demonstrira sposobnost samostojnega in neodvisnega raziskovalnega dela na področju študij intelektualne lastnine
- demonstrira sposobnost prezentacije svojih raziskovalnih rezultatov na znanstvenih srečanjih in v znanstvenih publikacijah - vključujoč napisati znanstveni članek na temo intelektualne lastnine v digitalni dobi
- izkaže sposobnost pridobiti, procesirati in uporabiti podatke povezane z intelektualno lastnino.

Intended learning outcomes:

Knowledge and understanding:

The student:

- demonstrates knowledge of basic intellectual property concepts and theories
- demonstrates the ability of individual and independent research work in the field of intellectual property studies
- demonstrates the ability of presenting the acquired research results in scientific meetings and publications – including being able to write a scientific article on the selected topics at the intellectual property in the digital era
- gains the ability to collect, process and use data connected to intellectual property.

Metode poučevanja in učenja:

- Predavanja z aktivno udeležbo študentov za splošni del.
- Seminar za posebni del.
- Vaje za pregled raziskovalnega dela na predmetnem področju in predstavitev dela s konkretnimi podatki intelektualne lastnine.
- Individualno delo študentov; samostojni študij znanstvene in strokovne literature in izdelava raziskovalne naloge.

Learning and teaching methods:

- Lectures with active participation of students for the general part.
- Seminar for the special part.
- Tutorial for overview of research work and demonstration of work with intellectual property data.
- Individual work of students; independent study of scientific and professional literature, and the completion of the written research assignment.

Načini ocenjevanja:

Način (pisni izpit, ustno izpraševanje, naloge, projekt):

- Raziskovalna naloga v obliki znanstvenega članka

Delež (v %) /

Weight (in %)

100

Assessment:

Type (examination, oral, coursework, project):

- Research paper in the format of a scientific article

Reference nosilca / Lecturer's references:

- Modic, D. and Yoshioka-Kobayashi, T. 2020. Individual-Level Determinants of Academic Patent Licensing to Start-Ups: Impacts of Principal Investigators' Embeddedness in the Industry. In: Research Handbook of Start-up Incubation

Ecosystems (eds.: Novotny, A., Rasmussen, E., Clausen, T. and Wiklund, J.). Edward Elgar Publishing.

- Bercovitz J., Changoluisa, J., Feldman, M.P. and Modic, D. 2019. Pay to Play: Connecting university research funding to licensing outcomes. In: *Frontiers of Strategic Alliance Research: Negotiating, Structuring and Governing Partnerships* (eds.: Contractor, Farok J. and Reuer, Jeffrey J.). Cambridge University Press.
- Modic, D., Hafner, A., Damij, N. and Čehovin Zajc, L. 2019. Innovations in Intellectual Property Rights Management: Their Potential Benefits and Limitations. *European Journal of Management and Business Economics*, 28(2): 189-203.
- Johnson, A.R., Hafner A., Lužar, B., Modic, D., Rožac, B. and Vučković, M. 2019. Intellectual Property Linked Open Data: Building Bridges (IP LodB): Towards Developing Small Business Informatics. Presented paper at ITIS conference.
- Modic, D. and Rončević, B. 2018. Social Topography for Sustainable Innovation Policy: Putting Institutions, Social Networks and Cognitive Frames in their Place. *Comparative Sociology*, 17(2018): 100-127.
- Modic, D. and Damij, N. 2018. *Towards Intellectual Property Rights Management*. Palgrave MacMillan.
- Modic, D and Feldman, M.P. 2017. Mapping the human brain: comparing the US and EU Grand Challenges. *Science and Public Policy*, 44 (3): 440-449.