

## UČNI NAČRT PREDMETA / COURSE SYLLABUS

<b>Ime predmeta:</b>	INOVATIVNOST V LOGISTIKI IN OSKRBOVALNIH VERIGAH
<b>Course title:</b>	INNOVATION IN LOGISTICS AND SUPPLY CHAINS

Študijski program in stopnja Study programme and cycle	Študijska smer Study option	Letnik Year of study	Semester Semester
LOGISTIKA SISTEMOV 2. stopnja		1.	2.
SYSTEM LOGISTICS 2 <sup>nd</sup> degree		1.	2.

<b>Vrsta predmeta (obvezni ali izbirni) / Course type (compulsory or elective)</b>	OBVEZNI
	COMPULSORY

<b>Univerzitetna koda predmeta / University course code:</b>	MAG
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Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Clinical training	Druge oblike študija Other forms of study	Samost. delo Individual work	ECTS
10 e-P 15 a-P		8 e-V 12 a-V			75	4

<b>Nosilec predmeta / Course coordinator:</b>	BOJAN ROSI
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<b>Jeziki /Languages:</b>	<b>Predavanja / Lectures:</b>	SLOVENSKI/SLOVENE
	<b>Vaje / Tutorial:</b>	SLOVENSKI/SLOVENE

<b>Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:</b>	<b>Prerequisites for enrolling in the course or for performing study obligations:</b>
Ni pogojev.	None.

Vsebina (kratek pregled učnega načrta):	Content (syllabus outline):
<ul style="list-style-type: none"> <li>• Značilnosti invencijsko-inovacijskega procesa, ki zahtevajo (dialektično)-sistemsko razmišljanje.</li> <li>• Sistemsko razmišljanje, invencijsko-inovacijsko-difuzijski management in odlična kakovost kot podlaga za uspeh poslovanja in življenja.</li> <li>• Dialektični sistem pogojev za inovacijo.</li> <li>• Model za operativno pot do uresničevanja dialektičnega sistema pogojev inovacije.</li> <li>• Dialektična teorija sistemov.</li> <li>• Zakon hierarhije zaporedja in soodvisnosti.</li> <li>• Zakon entropije.</li> <li>• Smernice za opredelitev subjektivnih izhodišč.</li> <li>• Invencijsko-inovacijski procesi (IPP) v logistiki.</li> </ul>	<ul style="list-style-type: none"> <li>• Characteristics of Invention-Innovation-diffusion Management requiring (dialectical) systemic thinking.</li> <li>• Systemic thinking, and Invention-Innovation-diffusion Management along with excellency as a groundwork for success in business and life itself.</li> <li>• Dialectic system of conditions needed for innovation.</li> <li>• Model of operative pathway for realizing dialectical system conditions for innovation.</li> <li>• Dialectical System Theory.</li> <li>• Law of hierarchy of sequences and interdependence.</li> <li>• Law of entropy.</li> <li>• Guidelines for determination of subjective starting points.</li> </ul>

### Temeljni literatura in viri / Reading materials:

E-gradivo predmeta.

Mulej, M. et al. (2008). *Invencijsko-inovacijski management z uporabo dialektične teorije sistemov (podlaga za uresničitev ciljev Evropske unije glede inoviranja)*. Ljubljana: Korona plus d.o.o., Inštitut za inovacije in tehnologijo.

Bukovec, B. (2009). *Nova paradigmi obvladovanja sprememb*. Nova Gorica: Fakulteta za uporabne družbene študije.

International Organisation for Standardisation. (2010). *Guidance on social responsibility – ISO/FDIS 26000:2010*.

### Cilji in kompetence:

- Sposobnost sistematičnega in systemskega razmišljanja.
- Sposobnost razumevanja pomena in razlike med invencijo in inovacijo.
- Razumevanje invencijsko - inovacijskega difuzijskega managementa kot podlage/pogoja za kakovost in odličnost v logističnih sistemih.
- Razumevanje invencijsko - inovacijskega procesa.
- Razumevanje dialektične teorije sistemov in njene vloge v invencijsko - inovacijskem difuzijskem managementu.

### Objectives and competences:

- Ability of systematic and systemic thinking.
- Ability of understanding the difference between invention and innovation.
- Understanding of invention - innovation diffusion management as a requirement for quality and excellence in logistics systems.
- Understanding of invention-innovation process.
- Understanding of dialectical systems theory and its role in invention - innovation diffusion management.

### Predvideni študijski rezultati:

#### Znanje in razumevanje:

Postavitev dialektičnega sistema vidikov, ki ga gradimo med subjektivna izhodišča in izbrani posamični vidik, za razumevanje zapletenosti dane tematike, s katerih bistvenih vidikov in sinergij bi se dala in morala, če le gre, obravnavati, ter kaj pustimo ob strani, ko se odločimo za neki izbrani vidik.

#### Prenosljive/ključne spretnosti in drugi atributi:

Nabor znanj, veščin in sposobnosti, ki so neposredno aplikativne na področju invencijsko-inovacijskega managementa.

### Intended learning outcomes:

#### Knowledge and Understanding:

Setting dialectical system aspects, which is built between subjective starting point in the selected individual aspect, in order to understand the complexity of a given topic from which the essential aspects of the synergies should and could be considered, if possible, and what to leave aside when we pick a selected aspect.

#### Transferable/Key Skills and other attributes:

To gather skills and capabilities which are directly applicable invention-innovation management.

### Metode poučevanja in učenja:

Predavanja: pri predavanjih študent spozna teoretične vsebine predmeta. Del predavanj se izvaja na klasični način v predavalnici, del pa v obliki e-predavanj (e-predavanja se lahko izvajajo na videokonferenčni način ali s pomočjo posebej v ta namen didaktično pripravljenih e-gradiv v virtualnem elektronskem učnem okolju).

### Learning and teaching methods:

Lectures: Students understand the theoretical frameworks of the course. Part of the lecture course is in a classroom while the rest is in the form of e-learning (e-lectures may be given via video-conferencing or with the help of specially designed e-material in a virtual electronic learning environment).

Vaje: pri vajah študent utrdi teoretično znanje in spozna aplikativne možnosti. Del vaj se izvaja na klasični način v predavalnici, del pa v obliki e- vaj (e- vaje se lahko izvajajo na videokonferenčni način ali s pomočjo posebej v ta namen didaktično pripravljenih e-gradiv v virtualnem elektronskem učnem okolju).

Tutorials: Students enhance their theoretical knowledge and are able to apply it. Part of the seminar is in a classroom while the rest is in the form of e-learning (e-tutorials may be given via video-conferencing or with the help of specially designed e-material in a virtual electronic learning environment).

Načini ocenjevanja:	Delež (v %) / Share (in %)	Assessment methods:
Opravljene obveznosti e-predavanj in e-vaj so pogoj za pristop k izpitu.		Successful completion of e-lectures and e-tutorials is a prerequisite for entering the exam.
Ustni izpit.	40%	Oral exam.
Seminarska naloga.	60%	Individual project (seminar paper).

#### Reference nosilca / Course coordinator's references:

- GAJŠEK, Brigita, ROSI, Bojan. Stakeholder differences in the understanding of inter-organizational concept.content as a risk factor : the case for a logistics platform. The International journal of logistics management, ISSN 0957-4093, 2015, vol. 26, iss. 1, str. 107-127, tabele. <http://www.emeraldinsight.com/doi/pdfplus/10.1108/IJLM-06-2012-0040>, doi: 10.1108/IJLM-06-2012-0040. [COBISS.SI-ID 512661565].
- IVANUŠA, Teodora, PODBREGAR, Iztok, ROSI, Bojan. Toward more governmental social responsibility; the case of natural or intentional outbreaks of highly contagious diseases. Systems research and behavioral science : the official journal of the International Federation for Systems Research, ISSN 1092-7026, Mar./Apr. 2015, vol. 32, iss. 2, str. 197-204, graf. prikazi, doi: 10.1002/sres.2260. [COBISS.SI-ID 2853866].
- JEREB, Borut, IVANUŠA, Teodora, ROSI, Bojan. Systemic thinking and requisite holism in mastering logistics risks : the model for identifying risks in organisations and supply chain. Amfiteatru economic, ISSN 1582-9146, Feb. 2013, vol. 15, no. 33, str. 56-73, tabele. <http://www.amfiteatruconomic.ro/ArticolEN.aspx?CodArticol=1175>. [COBISS.SI-ID 512476221].
- ŽENKO, Zdenka, ROSI, Bojan, MULEJ, Matjaž, MLAKAR, Tatjana, MULEJ, Nastja. General Systems Theory completed up by Dialectical Systems Theory. Systems research and behavioral science : the official journal of the International Federation for Systems Research, ISSN 1092-7026, 2013, vol. 30, iss. 6, str. 637-645. <http://onlinelibrary.wiley.com/doi/10.1002/sres.2234/pdf>, doi: 10.1002/sres.2234. [COBISS.SI-ID 11630364].
- IVANUŠA, Teodora, MULEJ, Matjaž, PODBREGAR, Iztok, ROSI, Bojan. Requisite holism of behavior when facing complexity of pandemic diseases - new trends in healthcare information system (HIS). V: MULEJ, Matjaž (ur.), DYCK, Robert G. (ur.). Social responsibility - range of perspectives per topics and countries, (Social responsibility beyond neoliberalism and charity, ISSN 2352-3336, Vol. 4). [S. l.]: Bentham eBooks. 2015, str. 105-161. <http://ebooks.benthamsience.com/book/9781681080406/chapter/130789/>. [COBISS.SI-ID 512672573].
- ROSI, Bojan. Innovation in systems thinking : the application of dialectical network thinking in resolving complex problems, (Business issues, competition and entrepreneurship). New York: Nova Publishers, cop. 2015. VIII, 98 str., ilustr. ISBN 978-1-63463-320-8. [https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=52478&osCsid=5dd54631ae62a331a1531cdcfb8c9552](https://www.novapublishers.com/catalog/product_info.php?products_id=52478&osCsid=5dd54631ae62a331a1531cdcfb8c9552). [COBISS.SI-ID 512655165].

7. MULEJ, Matjaž, BOŽIČNIK, Stanislav, ČANČER, Vesna, HRAST, Anita, JURŠE, Karin, KAJZER, Štefan, KNEZ-RIEDL, Jožica, JERE JAKULIN, Tadeja, MLAKAR, Tatjana, MULEJ, Nastja, POTOČAN, Vojko, RISOPOULOS, Filippina, ROSI, Bojan, STEINER, Gerald, ŠTRUKELJ, Tjaša, URŠIČ, Duško, ŽENKO, Zdenka. Dialectical systems thinking and the law of requisite holism concerning innovation, (Exploring unity through diversity, vol. 3). Litchfield Park: Emergent Publications, cop. 2013. XVII, 365 str., ilustr. ISBN 978-1-938158-09-4. [COBISS.SI-ID 74479361].
8. LERHER, Tone, EKREN, Banu Y., SARI, Zaki, ROSI, Bojan. Simulation analysis of shuttle based storage and retrieval systems. International journal of simulation modelling, ISSN 1726-4529, Mar. 2015, vol. 14, no. 1, str. 48-59, ilustr. [http://www.ijimm.com/Full\\_Papers/Fulltext2015/text14-1\\_48-59.pdf](http://www.ijimm.com/Full_Papers/Fulltext2015/text14-1_48-59.pdf), doi: 10.2507/IJSIMM14(1)5.281. [COBISS.SI-ID 512661053].