

UČNI NAČRT PREDMETA / COURSE SYLLABUS	
Predmet:	MANAGEMENT TRAJNOSTNIH OSKRBOVALNIH VERIG
Coursetitle:	MANAGEMENT SUSTAINABLE SUPPLY CHAIN

Študijski program in stopnja Studyprogrammeandlevel	Študijska smer Studyfield	Letnik Academicyear	Semester Semester
LOGISTIKA SISTEMOV 1. stopnja		2.	4.
SYSTEM LOGISTICS 1. degree		2.	4.

Vrsta predmeta / Coursetype

IZBIRNI

Univerzitetna koda predmeta / Universitycoursecode:

UN1

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Laboratorywork	Druge oblike študija Fieldwork	Samost. delo Individ. work	ECTS
24 e-P 21 a-P		24 e-V 21 a-V			90	6

Nosilec predmeta / Lecturer:

BOJAN ROSI

Jeziki /

Predavanja / Lectures: SLOVENSKI / SLOVENE

Languages:

Vaje / Tutorial: SLOVENSKI / SLOVENE

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

Ni pogojev.

Prerequisites:

None

Vsebina:

- Trajnostno naravnano okolje 21. stoletja
- Zelena logistika in poslovna odličnost organizacij
- Logistični procesi in zelene tehnologije
- Zelena oskrbovalna veriga in management logistike
- Zelena logistika v podsistemih logistike
- Okoljski standardi in zakonodaja
- Zelene strategije
- Energetsko učinkoviti procesi v logističnih organizacijah
- Management zelenih tehnologij v logističnih organizacijah
- Ogliščni odtis

Content (Syllabusoutline):

- Sustainable environment of 21 century
- Green logistics and operational excellence of organizations
- Logistical processes and green technologies
- Green supply chain and logistics management
- Green logistics in logistics subsystems
- Environmental standards and legislation Green Strategies
- Energy-efficient processes in logistics organizations
- Management of green technologies in logistics organizations
- Carbon footprint
- Protection of the environment and

- Varstvo okolja in okoljski stroški

environmental costs

Temeljni literatura in viri / Readings:

Knez M., (2013) Zelena logistika in trajnostna oskrbovalna veriga. E-gradivo – v pripravi. Univerza v Mariboru, Fakulteta za logistiko.

McKinnon A., Browne M., Whiteing A. (2012) GreenLogistics, ImprovingtheEnvironmentalSustainabilityofLogistics.

Makower J., 2009. StrategiesfortheGreenEconomy. McGrawHill, New York.

MacKinnon D., Shaw J., Docherty I. (2008) DivergingMobilities? Devolution, Transport andpolicyInnovation. Elsevier.

Esty D.C., Winston A.S. (2009) Green to Gold. Howsmartcompaniesuseenvironmentalstrategy to innovate, createvalue, andbuildcompetitiveadvantage. John Wiley&Sons, Inc. Hoboken New Jersey.

Cetinkaya B., Cuthbertson R., Ewer G., Klass-Wissing T., Piotrowicz W., Tyssen C. (2011) SustainableSupplyChainManagement. Springer-Verlag Berlin Heidelberg.

Dodatna literatura: Izbrani članki ter nova izdana literatura s področja predmeta

Cilji in kompetence:

Cilj tega predmeta je:

- razumevanje pojmov: zelena logistika, zelena oskrbovalna veriga, management zelenih oskrbovalnih verig, okoljski stroški, ogljični odtis
- razumevanje in pomen varstva okolja ter okoljskih zahtev, ki jih postavlja moderna in trajnostna družba,
- spoznati okoljsko zakonodajo in okoljske standarde,
- spoznati orodja in tehnike za doseganje energetske učinkovitosti podjetij,
- spoznati alternativne vire energije in nove, zelene tehnologije prihodnosti ter njihovo integracijo v logistične procese

Objectives and competences:

The objective of the course is:

- understandingofconcepts: greenlogistics, greensupplychain, greensustainablemanagementofsupplychains, environmentalcosts, carbonfootprint
- understanding andimportance of environmental protection and environmental requirements imposedby modern and sustainable society,
- to recognize environmental legislation and environmental standards,
- to learn the tools and techniques for achieving energy efficiency companies,
- to identify alternative sources of energy and new green technologies of the future and their integration into logistics processes

Predvideni študijski rezultati:

Znanje in razumevanje:

- razumevanje poslovanja logističnih in nelogističnih podjetij v moderni in trajnostno naravnani družbi,
- poznavanje pojmov s področja zelene logistike in managementazelenih oskrbovalnih verig,
- Razumevanje pomena ogljičnega odtisa ter načine za njegovo zmanjševanje

Prenesljive/ključne spretnosti in drugi atributi:

- študenti se usposobijo za uporabo teoretičnega znanja v praktičnih primerih
- zmožnost generiranja novih idej
- zmožnost prilagajanja novim razmeram in zahtevam

Intendedlearningoutcomes:

Knowledge and understanding:

- understanding operations of logistics and “nonlogistics companies in modern and sustainable society
- understanding key concepts of green logistics and management of sustainable green supply chains,
- Understanding the importance of carbon footprint and ways of reducing

Transferable/Key skills and other attributes:

- the ability to apply theoretical knowledge to professional practice.
- the ability to generate new ideas
- the ability to adapt to the new situations and

	requirements
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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).
- 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-predavanj (e-vaje 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)
- Seminars: 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-seminars 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 %) / Weight (in %)	Assessment:
• Opravljena seminarska naloga in domače naloge • Pisni izpit	30 70	• Coursework and home work • Written examination

Reference nosilca / Lecturer's references:

1. 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 econ.*, Feb. 2013, vol. 15, no. 33, str. 56-73, tabele. <http://www.amfiteatruconomic.ro/ArticolEN.aspx?CodArticol=1175>. [COBISS.SI-ID [512476221](#)]
2. JEREB, Borut, CVAHTE, Tina, ROSI, Bojan. Mastering supply chain risks. *Advanced engineering*, 2012, year 6, no. 2, str. 157-170, tabele. [COBISS.SI-ID [512476477](#)]
3. KNEZ, Matjaž, PREDIN, Andrej, ROSI, Bojan. 'Forklift to grid' - how to synergise the electricity and logistics sectors = 'Viličar na omrežje' - kako sinergijsko povezati električno omrežje z logističnim sektorjem. *Journal of energy technology*, May 2012, vol. 5, iss. 2, str. 13-27. http://www.fe.uni-mb.si/images/stories/jet/e-jet/jet_5-2.pdf. [COBISS.SI-ID [1024091228](#)]
4. ROSI, Bojan, TOJNKO, Miran, CVAHTE, Tina, LERHER, Tone, JEREB, Borut, BÁLINT ČEH, Júlia. Load fastening and securing. *Logistics & sustainable transport*. [Spletna izd.], letn. 3, št. 1, str. 53-57, ilustr. <http://www.jlst.org/>. [COBISS.SI-ID [799904](#)]
5. KNEZ, Matjaž, PREDIN, Andrej, ROSI, Bojan. Poslovni model OVE/F2G V.1 za učinkovitejši energetski menedžment

logističnih podjetij. *Proj. mreža Slov.*, apr. 2012, letn. 15, št. 1, str. 10-17, 43, ilustr. [COBISS.SI-ID [1024084572](#)]

6. JEREB, Borut, CVAHTE, Tina, ROSI, Bojan. Mastering supply chain risks. *Serb. J. Manag.*, 2012, vol. 17, no. 2, str. [271]-285, ilustr., tabela. http://aseestant.ceon.rs/index.php/sjm/article/view/1360/pdf_3, doi: [10.5937/sjm7-1360](https://doi.org/10.5937/sjm7-1360). [COBISS.SI-ID [512470333](#)]

7. JEREB, Borut, CVAHTE, Tina, ROSI, Bojan. Prepoznavanje in analiza tveganj v oskrbovalnih verigah. *Proj. mreža Slov.*, dec. 2011, letn. 9 [i. e. 14], št. 4, str. 4-12. [COBISS.SI-ID [15689781](#)]

8. STERNAD, Marjan, KNEZ, Matjaž, ROSI, Bojan. Improving city transport with the objective to reduce CO₂ emissions. *Transport problems*, 2010, vol. 5, iss. 4, str. 95-103. http://transportproblems.polsl.pl/pl/Archiwum/2010/zeszyt4/2010t5z4_12.pdf. [COBISS.SI-ID [512283197](#)]

9. ANDROJNA, Andrej, BIZJAK, Robert, ROSI, Bojan. Maintenance supply chain for nuclear power plants : information technology support for human resources management. *Logistics & sustainable transport*. [Tiskana izd.], 2009, vol. 1 [!], iss. 4, str. 14-23, ilustr. <http://www.jlst.org/uploads/maintenance%20supply%20chain%20for%20nuclear%20power%20plants.pdf>. [COBISS.SI-ID [264167424](#)]

10. ROSI, Bojan, MULEJ, Matjaž. Diminishing traffic negative impacts over natural environment by a requisitely holistic approach to logistics. *Logistics & sustainable transport*. [Tiskana izd.], 2008, vol. 1, no. 1, str. [1-13]. http://www.jlst.org/uploads/transportokolje_rosimulej.pdf. [COBISS.SI-ID [264130048](#)]