

UČNI NAČRT PREDMETA / COURSE SYLLABUS	
Predmet:	RAZVOJ TRAJNOSTNIH OSKRBOVALNIH VERIG
Coursetitle:	DEVELOPMENT OF SUSTAINABLE SUPPLY CHAIN AUDIT

Študijski program in stopnja Studyprogrammeandlevel	Študijska smer Studyfield	Letnik Academyear	Semester Semester
LOGISTIKA SISTEMOV 1. Stopnja		3.	5.
SYSTEM LOGISTICS 1.degree		3.	5.

Vrsta predmeta / Course type

IZBIRNI

Univerzitetna koda predmeta / Universitycoursecode:

UN3

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:

MATJAŽ KNEZ

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:

- Zelena logistika
- Vloga države pri promociji zelene logistike
- Okoljska zakonodaja in okoljski standardi
- Ogljični odtis organizacij, procesov in izdelkov
- Strategije nižanja ogljičnega odtisa
- Uporaba različnih alternativnih virov energije in zelenih tehnologij
- Študije praktičnih primerov ogljičnih preso

Content (Syllabusoutline):

- Green logistics
- The role of government in the promotion of green logistics
- Environmental legislation and Environmental Standards
- Carbon footprint of organizations, processes and products
- Strategies of carbon footprint reducing
- Use of a variety of alternative energy sources and green technologies
- Case studies of carbon audits

Temeljni literatura in viri / Readings:

Knez M., (2013) TRAJNOSTNA PRESOJA OSKRBOVALNIH VERIG. E-gradivo – v pripravi. Univerza v Mariboru, Fakulteta za logistiko.

McKinnon A., Browne M., Whiteing A. (2012) Green Logistics, Improving the Environmental Sustainability of Logistics. Standard ISO14000 Environmental management
Standard ISO9000 Quality management

Makower J., 2009. Strategies for the Green Economy. McGrawHill, New York.

MacKinnon D., Shaw J., Docherty I. (2008) Diverging Mobilities? Devolution, Transport and policy Innovation. Elsevier.

Esty D.C., Winston A.S. (2009) Green to Gold. How smart companies use environmental strategy to innovate, create value, and build competitive advantage. John Wiley & Sons, Inc. Hoboken New Jersey.

Cetinkaya B., Cuthbertson R., Ewer G., Klass-Wissing T., Piotrowicz W., Tyssen C. (2011) Sustainable Supply Chain Management. 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,
- razumevanje vzpostavitve trajnostnega managementa na osnovi standarda ISO14000,
- 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:

- understanding of concepts: green logistics, green supply chain, green sustainable management of supply chains, environmental costs, carbon footprint
- understanding and importance of environmental protection and environmental requirements imposed by modern and sustainable society,
- to recognize the environmental legislation
- understanding the establishing of sustainable management based on the ISO14000 standard,
- to learn the tools and techniques for achieving energy efficiency in 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 nelogičnih podjetij v moderni in trajnostno naravnani družbi,
- poznavanje pojmov s področja zelene logistike in zelenih oskrbovalnih verig,
- Poznavanje okoljskih standardov in okoljska presoja
- Razumevanje pomena ogljičnega odtisa ter načinov za njegovo zmanjševanje

Prenesljive/ključne spretnosti in drugi atributi:

- študenti se usposobijo za uporabo teoretičnega znanja v praktičnih primerih
- sposobnost kritične presoje različnih situacij

Intended learning outcomes:

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.
- ability to critically evaluate the different situations

Metode poučevanja in učenja:

Learning and teaching methods:

• 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).	• 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)
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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.amfiteatru economic.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](#). [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, BIZIAK, 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](#)]