UČNI NAČRT PREDMETA / COURSE SYLLABUS

Ime predmeta:	POVRATNA LOGISTIKA
Course title:	REVERSE LOGISTICS

Študijski program in stopnja Study programme and cycle	Študijska smer Study option	Letnik Year of study	Semester Semester
LOGISTIKA SISTEMOV 3. stopnja		1.	1. in 2.
SYSTEM LOGISTICS 3rd degree		1.	1. in 2.

Vrsta predmeta (obvezni ali izbirni) /	IZBIRNI
Course type (compulsory or elective)	ELECTIVE

Univerzitetna koda predmeta / University course code: DR

Predavanja Lectures	Seminar Seminar	Vaje Tutorial			Klinične vaje Clinical training	Druge oblike študija Other forms of study	Samost. delo Individual work	ECTS
20		AV	LV	RV			160	6

Nosilec predmeta / Course coordinator: ANDREJ LISEC

Jeziki /Languages:

Predavanja / Lectures: SLOVENSKI/SLOVENE

Vaje / Tutorial: SLOVENSKI/SLOVENE

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	Prerequisites for enrolling in the course or for performing study obligations:
Ni posebnih omejitev.	No special conditions.

Vsebina (kratek pregled učnega načrta):

- Pomen reverzibilne logistike v logistični verigi.
- Sodobni trendi reverzibilne logistike.
- Embalaža za večkratno uporabo.
- Recikliranje.
- Problematika nevarnih odpadkov.
- Načrtovanje in modeliranje odvoza odpadkov.

Content (syllabus outline):

- The importance of reversible logistics in the logistics chain.
- Modern trends in reversible logistics.
- Reusable packaging.
- Recycling.
- Problems of hazardous waste.
- Planning and modelling of waste removal.

Temeljni literatura in viri / Reading materials:

- Harald Dyckhoff, Richard Lackes, Joachim Reese (2004) Supply Chain Management and Reverse Logistics, Springer Science & Business Media, Business & Economics.
- Rommert Dekker, Moritz Fleischmann, Karl Inderfurth, Luk N. van Wassenhove (2004) Reverse Logistics: Quantitative Models for Closed-Loop Supply Chains, Springer Science & Business Media, Business & Economics.
- LISEC, Andrej, ANTIĆ, Slobodan, CAMPUZANO BOLARÍN, Francisco, PEJIĆ, Vaska. An approach to packaging waste reverse logistics : case of Slovenia. Transport, ISSN 1648-3480. [Online ed.], 2017, str. [1-9]. http://www.tandfonline.com/doi/abs/10.3846/16484142.2017.1326404, doi:

10.3846/16484142.2017.1326404. [COBISS.SI-ID 512892477], [JCR, SNIP, Scopus do 16. 2. 2018: št. citatov (TC): 0, čistih citatov (CI): 0].

Cilji in kompetence:

− Podati povezana znanja reverzibilne logistike s poudarkom na odpadkih.
− Razviti sposobnost študentov za samostojno znanstveno-raziskovalno reševanje problemov reverzibilne logistike.

Objectives and competences:

− To provide integrated knowledge of reverse logistics on focus of waste.
− To develop student's capabilities of independent scientific-research solution solving on reverse logistics.

Predvideni študijski rezultati:

Znanje in razumevanje:
− Poznavanje reverzibilne logistike v oskrbovalni verigi.
− Znati znanstveno in raziskovalno predvideti in uporabiti napredne metode, modele, tehnike pri načrtovanju, oblikovanju reverzibilne logistike.
− Povezovanje teoretičnih znanj in analitičnih/matematičnih modelov.

Prenesljive/ključne spretnosti in drugi atributi:
− Potrebno znanje za načrtovanje, oblikovanje, modeliranje reverzibilne logistike.
− Poznavanje in uporaba naprednih računalniško podprtih orodjih.

Intended learning outcomes:

Knowledge and understanding:
− Knowledge of reverse logistics in supply chain.
− Knowledge of proper scientific-research anticipation and application of advanced methods, models, techniques by planning, design of reverse logistics.
− Integration of theoretical knowledge and analytical/ numerical models.

Transferable/Key Skills and other attributes:
− The necessary engineering knowledge for planning, designing, modelling of reverse logistics.
− The knowledge and the application of the advanced computer-aided tools.

Metode poučevanja in učenja:

- Predavanja.
− Konzultacije.
− Samostojno delo.
− Projektno delo ali znanstveni članek.

Learning and teaching methods:

− Lectures.
− Consultations.
− Individual work.
− Project work or scientific paper.

Načini ocenjevanja:	Delež (v %) / Share (in %)	Assessment methods:
− Raziskovalna naloga.	50%	− Research work.
− Izpit (teoretično in praktično znanje).	50%	− Exam (theoretical and practical knowledge).

Reference nosilca / Course coordinator's references:

1. PEJIĆ, Vaska, CEDILNIK, Marko, LISEC, Andrej. Impact on the environment of industrial packaging waste transport. Environmental engineering and management journal, ISSN 1843-3707. [Online ed.], 2017, vol. 16, no. 5, str. 1155-1160. http://www.ecozone.ro/reviste.php?revista=21&volum=61&numar=191&RID=27311. [COBISS.SI-ID 512892221], [JCR, SNIP, WoS do 16. 2. 2018: št. citatov (TC): 0, čistih citatov (CI): 0].
2. OBRECHT, Matevž, KNEZ, Matjaž, SZEGEDI, Zoltan, NICK, Gabor, LISEC, Andrej. Review of Industry 4.0 and forecasting its future within trends in logistics and development of legislation. Tér gazdaság ember, ISSN 2064-1176, 2017, vol. 5, no. 4, str. 59-70, ilustr. http://kgk.sze.hu/images/dokumentumok/folyoirat/TGE_V_evf04_ok.pdf. [COBISS.SI-ID 512926781].
3. LISEC, Andrej, ANTIĆ, Slobodan, CAMPUZANO BOLARÍN, Francisco, PEJIĆ, Vaska. An approach to packaging waste reverse logistics : case of Slovenia. Transport, ISSN 1648-3480. [Online ed.], 2017, str. [1-9]. http://www.tandfonline.com/doi/abs/10.3846/16484142.2017.1326404, doi:

10.3846/16484142.2017.1326404. [COBISS.SI-ID 512892477], [JCR, SNIP, Scopus do 16. 2. 2018: št. citatov (TC): 0, čistih citatov (CI): 0].

4. MURTIČ, Sašo, LISEC, Andrej. Models of inter-organizational logistics management in Slovenia. Promet, ISSN 0353-5320. [Print ed.], 2015, vol. 27, no. 1, str. 97-104, ilustr. http://www.fpz.unizg.hr/traffic/index.php/PROMTT/article/view/1320, doi: 10.7307/ptt.v27i1.1320. [COBISS.SI-ID 512660541], [JCR, SNIP, WoS do 26. 2. 2017: št. citatov (TC): 1, čistih citatov (CI): 1, Scopus do 28. 1. 2017: št. citatov (TC): 1, čistih citatov (CI): 1].

5. ANTIC, Slobodan, DJORDJEVIC, Lena, KOSTIĆ, Konstantin, LISEC, Andrej. Dynamic discrete simulation model of an inventory control with or without allowed shortages. Scientific Bulletin. Series A, Applied mathematics and physics, ISSN 1223-7027, 2015, vol. 77, iss. 1, str. 163-176, ilustr. http://scientificbulletin.upb.ro/rev_docs_arhiva/reza5f_351377.pdf. [COBISS.SI-ID 512662589], [JCR, SNIP, WoS do 2. 4. 2018: št. citatov (TC): 2, čistih citatov (CI): 2, Scopus do 17. 11. 2016: št. citatov (TC): 1, čistih citatov (CI): 1].

6. LEVIČAR, Stanislav, LISEC, Andrej. Postal network reorganization with implementation of information technology. SDMIMD journal of management, ISSN 0976-0652, 2014, vol. 5, no. 2, str. 13-22. [COBISS.SI-ID 512642365].

7. KAVAŠ, Andreja, LISEC, Andrej. Optimized system of returnable packing in Slovenia. Suvremeni promet, ISSN 0351-1898, 2014, letn. 34, št. 5/6, str. 355-364, ilustr. [COBISS.SI-ID 512639293].

8. PRAH, Klemen, LISEC, Andrej, LISEC, Anka. Digital spatial data as support for river basin management : the case of Sotla river basin. Spatium : urban and spatial planning, architecture, housing, building, geodesia, environment, ISSN 1450-569X, 2013, iss. 29, str. 59-67, doi: 10.2298/SPAT1329059P. [COBISS.SI-ID 512519485], [SNIP, Scopus do 11. 11. 2013: št. citatov (TC): 0, čistih citatov (CI): 0].

9. LISEC, Andrej, RUSJAN, Borut. Multi-level postal network for improved efficiency : a case study of Slovenian post. African journal of business management, ISSN 1993-8233, 23 Nov. 2011, vol. 5, 29, str. 11676-11685. http://www.academicjournals.org/ajbm/PDF/pdf2011/23Nov/Lisec%20and%20Rusjan.pdf, doi: 10.5897/AJBM11.1781. [COBISS.SI-ID 20435430], [WoS do 3. 2. 2012: št. citatov (TC): 0, čistih citatov (CI): 0].

10. LEVIČAR, Stanislav, LISEC, Andrej. Bioplastic packaging's potential and energy efficiency = Potencial embalaže iz bioplastike in energijska učinkovitost. Journal of energy technology, ISSN 1855-5748. [Tiskana izd.], Oct. 2011, vol. 4, iss. 4, str. 25-34. [COBISS.SI-ID 15678005].