

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Ime predmeta: EKONOMIKA OSKRBOVALNIH VERIG
Course title: SUPPLY CHAIN ECONOMICS

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

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

IZBIRNI
ELECTIVE

Univerzitetna koda predmeta / University course code:

MAG

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Clinical training	Druge oblike študija Other forms of study	Samost. delo Individual work	ECTS
16 e-P 24 a-P		16 e-V 24 a-V			100	6

Nosilec predmeta / Course coordinator:

ROSI BOJAN, MARJAN STERNAD

Jeziki /Languages:

Predavanja / Lectures: SLOVENSKI/SLOVENE

Vaje / Tutorial: SLOVENSKI/SLOVENE

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

Ni pogojev.

Prerequisites for enrolling in the course or for performing study obligations:

None.

Vsebina (kratek pregled učnega načrta):

1. Vrednostne verige v logistiki (opredelitev vrednostne verige, model vrednostne verige).
 2. Stroškovni vidik logističnih procesov (logistični stroški, stroškovne funkcije).
 3. Ekonomska učinkovitost in uspešnost (finančni izkazi, presojanje ekonomske učinkovitosti in uspešnosti oskrbovalne verige).
 4. Ekonomika logističnih investicij (vrste logističnih investicij, ekonomski modeli presojanja investicij, odločitveni modeli).
 5. Modeli zaračunavanja uporabe logistične infrastrukture (stroški logistične infrastrukture, modeli zaračunavanja, učinkovitost modelov).

Content (syllabus outline):

1. Value chains in logistics (value chain definition, value chain model).
 2. Cost aspect of logistics processes (logistics costs, cost functions).
 3. Economic efficiency and effectiveness (financial statements, assessment of economic efficiency and supply chain performance).
 4. Economics of logistics investments (types of logistics investments, economic models of investment assessment, decision models).
 5. Charging models for the use of logistics infrastructure (logistics infrastructure costs, calculation models, efficiency of models).

Temeljni literatura in viri / Reading materials:

Rosi, B., Sternad, M., Rosi, M. Ekonomika oskrbovalnih verig – e gradivo (v pripravi).

Sternad, M. & Rosi, B. (2011). Obvladovanje vrednostne verige v logistiki – e gradivo. Celje: FL.
 Button, K. (2010). Transport economics. 3rd Edition. Massachusetts, Edward Elgar Publishing Limited.
 Blauwens, G., De Baere, P. & Van de Voorde, E. (2010). Transport economics. Antwerpen: Uitgeverij De Boeck.
 Jonsson, P. (2008). Logistics and Supply Chain Management. London: McGraw-Hill.

Cilji in kompetence:

Cilji predmeta so:

- opredeliti in poglobljeno razumeti vrednostne verige v logistiki,
- spoznati in razumeti logistične stroške in njihovo vlogo v oskrbovalni verigi,
- razumeti ekonomsko učinkovitost in uspešnost,
- presojeti logistične investicije,
- razumeti in uporabiti modele zaračunavanja logistične infrastrukture.

Kompetence, ki jih pridobijo študenti:

- osvojijo teoretično znanje na področju vrednostnih verig in logističnih stroškov,
- poglobljeno razumejo logistične stroške in vplive na delovanje oskrbovalne verige,
- spoznajo in razumejo merila za presojanje ekonomske učinkovitosti in uspešnosti,
- razumejo ekonomske modele presojanja investicij,
- analizirajo in razumejo različne modela zaračunavanja uporabe logistične infrastrukture.

Objectives and competences:

The objectives of the course are:

- define and deeply understand value chains in logistics,
- get to know and understand logistics costs and their role in the supply chain,
- understand economic efficiency and effectiveness,
- assess logistics investments,
- understand and apply logistics infrastructure charging models.

Competences acquired by students:

- acquire theoretical knowledge in the field of value chains and logistics costs,
- have an in-depth understanding of logistics costs and impacts on supply chain operations,
- know and understand the criteria for assessing economic efficiency and effectiveness,
- understand economic models of investment assessment,
- analyze and understand different charging models for the use of logistics infrastructure.

Predvideni študijski rezultati:

Znanje in razumevanje:
 Študent bo ob zaključku predmeta zmožen:

- opredeliti in razumeti koncept vrednostne verige,
- definirati in analizirati logistične stroške v oskrbovalni verigi,
- izbrati in uporabiti kazalnike ekonomske uspešnosti in učinkovitosti,
- evalvirati vrednostno verigo v logistiki,
- analizirati in ovrednotiti logistične investicije,
- izbrati in uporabiti model zaračunavanja uporabe logistične infrastrukture.

Intended learning outcomes:

Knowledge and understanding:
 At the end of the course the student will be able to:

- define and understand the concept of the value chain,
- define and analyze logistics costs in the supply chain,
- select and use indicators of economic performance and efficiency,
- evaluate the value chain in logistics,
- analyze and evaluate logistics investments,
- select and use a model for charging for the use of logistics infrastructure.

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-predavanja (e-predavanja se lahko izvajajo na

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-

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. Praktične strokovne ekskurzije v podjetja. 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).

conferencing or with the help of specially designed e-material in a virtual electronic learning environment).

Tutorials: Students enhance their theoretical knowledge and are able to apply it. Practical professional excursions to companies. 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.
Pisni izpit.	50 %	Written examination.
Projektna naloga.	40 %	Project.
Naloge pri e-predavanjih in e-vajah.	10 %	Tasks in e-lectures and e-tutorials.

Reference nosilca / Course coordinator's references:

1. DRAGAN, Dejan, ROSI, Bojan, AVŽNER, Toni. Synergies between an observed port and a logistic company : application of the discounted cash-flow model and the Monte Carlo simulation. *Logistics & sustainable transport*, ISSN 2232-4968. [Spletna izd.], May 2017, vol. 8, no. 1, str. 1-18, ilustr. <https://doi.org/10.1515/jlst-2017-0001>, doi: [10.1515/jlst-2017-0001](https://doi.org/10.1515/jlst-2017-0001). [COBISS.SI-ID [512846141](#)].
2. STERNAD, Marjan, JAGRIČ, Timotej, ROSI, Bojan. Railway usage charges based on marginal maintenance costs. *Proceedings of the Institution of Civil Engineers - Transport*, ISSN 1751-7710. [Online ed.] <http://dx.doi.org/10.1680/jtran.15.00058>, doi: [10.1680/jtran.15.00058](https://doi.org/10.1680/jtran.15.00058). [COBISS.SI-ID [512834877](#)], [JCR, SNIP].
3. STERNAD, Marjan, JAGRIČ, Timotej, ROSI, Bojan. Estimating marginal infrastructure cost in new infrastructure charging model. *Tehnički vjesnik : znanstveno-stručni časopis tehničkih fakulteta Sveučilišta u Osijeku*, ISSN 1330-3651, 2017, god. 24, br. 3, str. 829-836, ilustr. http://hrcak.srce.hr/index.php?show=clanak&id=clanak_jezik=269882, doi: [10.17559/TV-20160218095139](https://doi.org/10.17559/TV-20160218095139). [COBISS.SI-ID [512850749](#)], [JCR, SNIP, WoS do 25. 7. 2017: št. citatov (TC): 0, čistih citatov (CI): 0, Scopus do 25. 7. 2017: št. citatov (TC): 0, čistih citatov (CI): 0].
4. BUTTON, Kenneth John, KRAMBERGER, Tomaž, GROBIN, Klemen, ROSI, Bojan. A note on the effects of the number of low-cost airlines on small tourist airports' efficiencies. *Journal of Air Transport Management*, ISSN 1873-2089. [Online ed.], 2018, vol. 72, str. 92-97. <https://www.sciencedirect.com/science/article/pii/S096969971730114X>, doi: [10.1016/j.jairtraman.2017.12.003](https://doi.org/10.1016/j.jairtraman.2017.12.003).
5. STERNAD, Marjan. Metrics of logistics costs in Slovenian companies. V: DUJAK, Davor (ur.). *Proceedings of the 18th International Scientific Conference Business logistics in modern management, October 11-12, 2018, Osijek, Croatia*, (Business logistics in modern management, ISSN 1849-6148). Osijek: Josip Juraj Strossmayer University, Faculty of Economics. 2018, str. 125-134. http://blmm-conference.com/wp-content/uploads/BLMM-book_2018_online.pdf.
6. STERNAD, Marjan. Transport cost function : case of Slovenian regional rail lines. V: DRAŠKOVIĆ, Veselin. *Management and logistics : selected topics*. 1st electronic ed. Czestochowa [etc.]: SPH - Scientific Publishing Hub. 2016, str. 35-53, ilustr. <http://sphub.org/books/management-and-logistics>, <https://dk.um.si/lzpisGradiva.php?id=70379>.

