

**UČNI NAČRT PREDMETA / COURSE SYLLABUS**

|               |                          |
|---------------|--------------------------|
| Predmet:      | TRANSPORTNA LOGISTIKA    |
| Course title: | TRANSPORTATION LOGISTICS |

| Študijski program in stopnja<br>Study programme and level | Študijska smer<br>Study field | Letnik<br>Academic year | Semester<br>Semester |
|---|-------------------------------|-------------------------|----------------------|
| LOGISTIKA SISTEMOV 1.stopnja                              |                               | 2.                      | 3.                   |
| SYSTEM LOGISTICS 1. degree                                |                               |                         |                      |

Vrsta predmeta / Course type: OBVEZNI

Univerzitetna koda predmeta / University course code: UN

| Predavanja<br>Lectures | Seminar<br>Seminar | Vaje<br>Tutorial | Klinične vaje<br>Laboratory work | Druge oblike študija<br>Field work | Samost. delo<br>Individ. work | ECTS |
|------------------------|--------------------|------------------|----------------------------------|------------------------------------|-------------------------------|------|
| 24 e-P<br>21 a-P       |                    | 24 e-V<br>21 a-V |                                  |                                    | 120                           | 7    |

Nosilec predmeta / Lecturer: DARJA TOPOLŠEK

Jeziki / Predavanja / Lectures: SLOVENSKI / SLOVENE  
 Languages: Vaje / Tutorial: SLOVENSKI / SLOVENE

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

Prerequisites:

Ni pogojev

None

Vsebina:

Content (Syllabus outline):

- Umestitev prometa in transporta v logistiko
- Osnove prometnih vej, infrastruktura in suprastruktura
- Sodobne tehnologije v vseh fazah transporta, IT podpora, multimodalnost
- Trendi razvoja prometa in transporta
- Evropski in globalni prometni koridorji
- Pomen učinkovitega transportnega sistema za logistiko
- Faze transporta in njihovo načrtovanje
- Izbira modalitete transporta, posebne zahteve za transport, oblikovanje cen transporta
- Optimiranje procesov v transportu
- Zeleni transport v logistiki-

- Role of traffic and transport in logistics
- Basics of transport systems, infrastructure and suprastructure
- Contemporary technologies in all transport phases, IT support, multimodality
- Trends of traffic and transport development
- European and global transport corridors
- The importance of a successful transport system for logistics
- Transport phases and its planning
- Selection of transport modality, special transport demands, formation of transport prices
- Optimization of transport processes
- Green transport in logistics

Temeljni literatura in viri / Readings:

- Topolšek, D. (2012). *Transportne tehnike, tehnologije in infrastruktura* : e-gradivo. Celje: Fakulteta za logistiko UM.
- Zelenika, R., Jakomin, L. (1995). *Suvremeni transportni sustavi*. Rijeka: Ekonomski fakultet.
- Stroh, M.B. (2006). *A Practical Guide to Transportation and Logistics, Logistics Network*. Dumont.
- Committee for the Surface Transportation Environmental Cooperative Research Program Advisory Board, Transportation Research Board, National Research Council (2002). *Surface transportation environmental research: a long-term strategy*. Washington, D.C. : Transportation Research Board.
- *Journal of transportation*. Atlanta, GA : NewsRX, 2008.

Cilji in kompetence:

Študenti:

- osvojijo vlogo prometa in transporta v logistiki
- spoznajo pomen vseh prometno-transportnih elementov za uspešnost logističnega sistema
- spoznajo IT podporo transportno-logističnega sistema in trende razvoja
- osvojijo načrtovanje faz transporta
- osvojijo razumevanje pomena izbire modalitet in oblikovanje cen transporta za učinkovit logistični sistem

Objectives and competences:

Students will:

- Get to know the role of traffic and transport in logistics
- Get to know the importance of all traffic-transport elements for efficient logistics
- Get to know IT support to the transport and logistics system and development trends
- Get to know the phases of transport planning
- Understand the importance of choosing transport modalities and forming transport prices for an efficient logistics system

Predvideni študijski rezultati:

Znanje in razumevanje:

- pomena učinkovitega transporta za učinkovito logistiko
- konkretnih možnosti uporabe sodobnih transportnih tehnologij v logistiki
- konkretizacija faz načrtovanja transporta
- optimiranja transporta v logistiki

Prenesljive/ključne spretnosti in drugi atributi:

- študenti se usposobijo za uporabo teoretičnega znanja v praktičnih primerih.

Intended learning outcomes:

Knowledge and understanding:

- of the importance of effective transport for efficient logistics
- of concrete possibilities to use contemporary transport technologies in logistics
- of concrete transport planning phases
- of optimization of transport

Transferable/Key Skills and other attributes:

- the ability to apply theoretical knowledge to professional practice

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, part of it in the form of e-learning (e-lectures may be in held via video-conferencing or with the help of specially designed e-materials in a virtual electronic learning environment) Tutorials: students consolidate their theoretical knowledge and apply it. Part of the lecture course is in a classroom, part of it in the form of e-learning (e-lectures may be in held via video-conferencing or with the help of specially designed e-materials in a virtual electronic learning environment).

Delež (v %) /

Načini ocenjevanja:

Weight (in %)

Assessment:

|   |  |   |
|---|--|---|
| <ul style="list-style-type: none"> <li>▪ Pisni izpit</li> <li>▪ Ocena iz vaj</li> </ul> | <ul style="list-style-type: none"> <li>▪ 70%</li> <li>▪ 30%</li> </ul> | <ul style="list-style-type: none"> <li>▪ Written examination</li> <li>▪ Grade from tutorials</li> </ul> |
|---|--|---|

Reference nosilca / Lecturer's references:

- TOPOLŠEK, Darja. Transportne tehnike, tehnologije in infrastruktura : e-gradivo. Celje: Fakulteta za logistiko, 2012. 1 CD-ROM, graf. prikazi. [COBISS.SI-ID 512518973]
- TOPOLŠEK, Darja, LIPIČNIK, Martin. System dynamic model of measures for reducing the number of road accidents due to wrong-way movement on motorways. *Promet (Zagreb)*, 2009, vol. 21, no. 2, str. 85-91.
- STERNAD, Marjan, SAFRAN, Matjaž, TOPOLŠEK, Darja. International comparative advantage in transport services: the case of Slovenia. *Montenegrin journal of economics*, 2011, vol. 8, no. 1, str. 179-186. [COBISS.SI-ID 512414269]
- KRAMAR, Uroš, LIPIČNIK, Martin, TOPOLŠEK, Darja. Contemporary issues in public transport system = Savremeni trendovi u sistemu javnog saobraćaja. V: KATIĆ, Vladimir (ur.). XIV Internacionalni naučni skup SM2009 "Strategijski menadžment i sistemi podrške odlučivanju u stratezijskom menadžmentu", Subotica-Palić, 21-22 maj, 2009 godine = 14th International Scientific Symposium SM2008 "Strategic Management and Decision Support Systems in Strategic Management", Subotica-Palic, 21-22 may, 2009. *Zbornik radova*. Subotica: Ekonomski fakultet, 2009, 12 f.
- STERNAD, Marjan, TOPOLŠEK, Darja. International competitiveness of road and rail transport services. V: SŁADKOWSKI, Aleksander (ur.). Actual problems of logistics. Gliwice: Wydawnictwo politechniki Śląskiej, 2012, str. 55-74. [COBISS.SI-ID 512483901]
- TOPOLŠEK, Darja, MEŠIĆ, Amra. Kaj znižuje pretočnost dvopasovnega krožnega križišča?. *Transport (Ljubl.)*, feb. 2013, letn. 13, št. 12, str. 38-39, fotograf. [COBISS.SI-ID 512484157]
- TOPOLŠEK, Darja, HERBAJ, Elvis Alojzij. Tragičnost prometnih nesreč zaradi nasprotne smeri vožnje po avtocesti. *Transport (Ljubl.)*, nov. 2009, letn. 9, št. 11, str. 28-30, ilustr. [COBISS.SI-ID 512169533]
- STRMLJAN, Metoda, HERBAJ, Elvis Alojzij, TOPOLŠEK, Darja. Elderly participants of traffic accidents. V: IPAVEC, Vesna Mia (ur.), KRAMBERGER, Tomaž (ur.). 9th International Conference on Logistics & Sustainable Transport, ICLST 2012, Celje, Slovenia, 13-15 June 2013. Pre-conference proceedings of the 10th International Conference on Logistics & Sustainable Transport 2013, Celje, Slovenia, 13-15 June 2013. Celje: Faculty of Logistics, 2013, str. 332-338. [COBISS.SI-ID 512512829]
- HERBAJ, Elvis Alojzij, TOPOLŠEK, Darja, ŠTEINER, Srečko, STERNAD, Gabrijel. Varnost intervencijskih služb na avtocestah ob obravnavi prometnih nesreč. V: 11. slovenski kongres o cestah in prometu = 11th Slovenian Road and Transport Congress, Portorož, 24.-25. oktobra 2012. Referati. Ljubljana: DRC, Družba za raziskave v cestni in prometni stroki Slovenije, 2012, 11 str., ilustr. [COBISS.SI-ID 16511029]
- JEREB, Borut, FRIC, Urška, TOPOLŠEK, Darja. Simulation of a road junction model. V: Transport problems 2012 : IV international scientific conference proceedings. Katowice: Silesian University of Technology, 2012, str. [248]-257, ilustr. [COBISS.SI-ID 512432701]