

**UČNI NAČRT PREDMETA/COURSE SYLLABUS**

Predmet:	TRANSPORTNA LOGISTIKA
Course title:	TRANSPORTATION LOGISTICS

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

Vrsta predmeta / Course type: OBVEZNI

Univerzitetna koda predmeta / University course code: UN

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Laboratory work	Druge oblike študija Field work	Samost. delo Individ. work	ECTS
24 e-P 21 a-P		24 e-V 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: Ni pogojev. Prerequisites: None.

**Vsebina:**

- 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-

**Content (Syllabus outline):**

- 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:**

- E-gradivo predmeta.
- 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-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).

**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).

**Tutorials:** 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-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 %) / Weight (in %)	Assessment:
<ul style="list-style-type: none"> <li>▪ Opravljene obveznosti e-predavanj in e-vaj so pogoj za pristop k izpitu.</li> <li>▪ Pisni izpit.</li> <li>▪ Ocena iz vaj.</li> </ul>	<p>70%</p> <p>30%</p>	<ul style="list-style-type: none"> <li>▪ Successful completion of e-lectures and e-tutorials is a prerequisite for entering the exam.</li> <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 stratejskom 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]