

tuČNI NAČRT PREDMETA / COURSE SYLLABUS

Ime predmeta:	TRANSPORTNA LOGISTIKA
Course title:	TRANSPORTATION LOGISTICS

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

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

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial		Klinične vaje Clinical training	Druge oblike študija Other forms of study	Samost. delo Individual work	ECTS
21 a-P 24 e-P		AV 18	EV 24	LV 3		150	8

Nosilec predmeta / Course coordinator:

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 pogojev.	None.

Vsebina (kratek pregled učnega načrta):	Content (syllabus outline):
<ul style="list-style-type: none"> • Umestitev transporta v logistiko in oskrbovalno verigo. • Vloga transportnih operacij v oskrbovalnih verigah. • Pomen učinkovitega transportnega sistema za logistiko. • Osnove modalitet, infrastrukture in suprastrukture. • Izbira modalitete transporta. • Varnost pri transportni storitvi in varovanje tovora. • Načrtovanje transportnih operacij in postopkov ter virov. • Posebne zahteve za transport. • Podporne informacijske in ostale tehnologije (GPS, RFID, navigacija,..). 	<ul style="list-style-type: none"> • Placement of transportation in the logistics and supply chain. • The role of transport operations in supply chains. • The importance of an efficient transportation system for logistics. • Basics of modalities, infrastructures and superstructures. • Choice of transport modality. • Transportation service safety and cargo security. • Planning transportation operations and processes and resources. • Special transport requirements. • Supporting transportation with information and other technologies (GPS, RFID, navigation, ..). • Modern technologies in all stages of transportation.

- Sodobne tehnologije v vseh fazah transporta.
- Regulativa in dokumentacija na področju transportne logistike.
- Evropski in globalni prometni koridorji.
- Okoljski vpliv transporta in distribucije in njegovo minimiziranje.
- Trendi razvoja prometa in transporta.

- Regulation and documentation in the field of transport logistics.
- European and global transport corridors.
- Environmental impact of transport and distribution and minimization.
- Trends in transport and transport development.

Temeljni literatura in viri / Reading materials:

- TOPOLŠEK, Darja, CVAHTE OJSTERŠEK, Tina. Transportna logistika : e-gradivo. Celje: Fakulteta za logistiko, 2016. 268 str., grafi. [COBISS.SI-ID 512938045].
- Levinson, D., Liu, H., Garrison, W., Danczyk, A. & Corbett, M. (2009). Fundamentals of transportation.
- Stroh, M.B. (2006). A Practical Guide to Transportation and Logistics, Logistics Network. Dumont.
- Rodrigue, J. P., Comtois, C. & Slack, B. (2020). The Geography of Transport Systems, peta izdaja. New York: Routledge.

Cilji in kompetence:

Cilji predmeta so:

- predstaviti vlogo transporta v oskrbovalnih verigah in logistiki,
- teoretično podati osnove vseh modalitet in njihove suprastrukture in infrastrukture,
- teoretično predstaviti in praktično razložiti sisteme izbire modalitete,
- opredeliti sisteme varnosti transporta in varovanja tovora
- predstaviti načrtovanje transportnih operacij,
- predstaviti značilnosti posebnih oblik transporta,
- predstaviti in praktično prikazati sodobne transportne tehnologije in IT za transport,
- predstaviti regulativo na področju transporta tovora,
- predstaviti značilnosti evropskih koridorjev,
- predstaviti trende na področju transporta

Kompetence, ki jih pridobijo študenti:

- razumejo vlogo transporta v logistiki in oskrbovalni verigi,
- poznajo transportno opremo in njihovo uporabo,
- razumejo kako izbirati modalitete, poti, opremo in urnike,
- poznajo IT podporo transportno-logističnega sistema,
- poznajo načrtovanje transportnih operacij in postopkov ter virov,
- poznajo izdelavo urnika dela in uporabe virov (resursov),

Objectives and competences:

The objectives of the course are to:

- present the role of transport in supply chains and logistics,
- theoretically define the basics of all modalities and their superstructures and infrastructure,
- theoretically present and practically explain the modality selection systems,
- define transport safety and cargo security systems
- define the planning of transport operations,
- define the characteristics of special forms of transport,
- define and practically demonstrate modern transport technologies and IT for transport,
- define regulations in the field of freight transport,
- define the characteristics of European corridors,
- define trends in the field of transport

Competences acquired by students:

- understand the role of transport in the logistics and supply chain,
- be familiar with transport equipment and their use,
- understand how to choose modality, routes, equipment and schedules,
- be familiar with IT support of transport and logistics systems,
- understand the design of transportation operations, processes and resources,
- know how to schedule work and use resource,
- know the principles of safety, security and protection at work/transport,

- poznajo načela varstva, varnosti in varovanja pri delu/transportu,
- poznajo sodobne transportne tehnologije,
- poznajo transportno dokumentacijo in predpise.

- have knowledge of modern transportation technologies,
- know the transport documentation and regulations.

Predvideni študijski rezultati:

Znanje in razumevanje:
Študent bo ob zaključku predmeta zmožen:

- uporabe učinkovitega transporta za učinkovito logistiko,
- konkretno uporabiti sodobne transportne tehnologije v logistiki,
- postopkov načrtovanja transporta,
- uporabiti transportne resurse

Prenosljive/ključne spretnosti in drugi atributi:

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

Intended learning outcomes:

Knowledge and understanding:
After completion of the course, the student will be able to:

- use of the efficient transport for efficient logistics,
- concrete use of possibilities of modern transport technologies in logistics,
- plan of transport procedures,
- use transportation resources.

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 in laboratoriju, 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 and in the laboratory 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:
<ul style="list-style-type: none"> • Opravljene obveznosti e-predavanj in e-vaj so pogoj za pristop k izpitu. • Pisni izpit. • Ocena e-predavanj. • Ocena laboratorijskih vaj. • Ocena e-vaj. 	<p>70 %</p> <p>5 %</p> <p>10 %</p> <p>15 %</p>	<ul style="list-style-type: none"> • Successful completion of e-lectures and e-tutorials is a prerequisite for entering the exam. • Written examination. • Grade from e-lectures. • Grade from laboratory tutorials. • Grade from e-tutorials.

Reference nosilca / Course coordinator's references:

- TOPOLŠEK, Darja, CVAHTE OJSTERŠEK, Tina. Transportna logistika : e-gradivo. Celje: Fakulteta za logistiko, 2016. 268 str., grafi. [COBISS.SI-ID 512938045].
- TOPOLŠEK, Darja, ČIŽUNIENE, Kristina, CVAHTE OJSTERŠEK, Tina. Defining transport logistics : a literature review and practitioner opinion based approach. Transport, ISSN 1648-4142. [Print ed.], 2018, vol. 33, iss. 5, str. 1196-1203, ilustr. <https://doi.org/10.3846/transport.2018.6965>, doi: doi.org/10.3846/transport.2018.6965. [COBISS.SI-ID 512964157].
- CVAHTE OJSTERŠEK, Tina, TOPOLŠEK, Darja, STERNAD, Marjan. The impact of clustering on transport companies. Production Engineering Archives, ISSN 2353-5156, 2015, vol. 7, no. 2, str. 25-28. <http://www.qpij.pl/production-engineering-archives>. [COBISS.SI-ID 512675389].
- TOPOLŠEK, Darja, HRIBAR, Suzana, STERNAD, Marjan. Road traffic safety in conjunction with in-vehicle ITS. Transport problems : international scientific journal, ISSN 1896-0596. [Printed ed.], 2014, vol. 9, iss. 2, str. 49-60. http://transportproblems.polsl.pl/pl/Archiwum/2014/zeszyt2/2014t9z2_07.pdf. [COBISS.SI-ID 512566589].
- TOPOLŠEK, Darja, POGLAVC, Anja. Kako se vedejo vozniki. Transport : revija o prometu, logistiki, gospodarskih vozilih in gradbeni mehanizaciji, ISSN 1580-4488, sept. 2015, letn. 15, št. 9, str. 46-50, ilustr. <http://www.etransport.si/revija>. [COBISS.SI-ID 512698685].