

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Ime predmeta: DISTRIBUCIJSKA LOGISTIKA
Course title: DISTRIBUTION LOGISTICS

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

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

OBVEZNI
COMPULSORY

Univerzitetna koda predmeta / University course code:

UN

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		24 e-V 21 a-V			120	7

Nosilec predmeta / Course coordinator:

DARJA TOPOLŠEK

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):

- Vloga distribucije v oskrbovalni verigi.
- Struktura distribucijske mreže.
- Konkurenčni dejavniki, stroški in strategije distribucije.
- Standardi in regulativa.
- Ponudniki storitev, zunanje izvajanje, trg transportnih storitev.
- Sodobne distribucijske strategije.
- Načrtovanje distribucijskega sistema, transportnih procesov in virov.
- Vozni park in izbira vozil v odvisnosti od različnih dejavnikov.
- Oblikovanje cen transporta.
- Stroškovna učinkovitost in učinkovitost transportnih operacij.
- Matrike in indikatorji za spremljanje operacij v transportu in distribuciji.

Content (syllabus outline):

- The role of distribution in the supply chain.
- Distribution network structure.
- Competitive factors, costs and distribution strategies.
- Standards and regulations.
- Service providers, outsourcing, transport services market.
- Modern distribution strategies.
- Distribution system design; transport processes and resources.
- Fleet and vehicle selection depending on various factors.
- Transport pricing.
- Cost-effectiveness and efficiency of transport operations.

- Spremljanje, analiziranje in uvajanje sprememb v transportu.
- Usmerjanje vozil in izdelava načrta ukrepanja v izrednih razmerah.

- Metrics and indicators for monitoring transport and distribution operations.
- Monitoring, analyzing and introducing changes in transport.
- Routing vehicles and developing an emergency plan.

Temeljna literatura in viri / Reading materials:

- E-gradivo predmeta.
- Brandimarte, P., Zotteri, G. (2007). Introduction to Distribution Logistics. John Wiley & Sons, New Jersey.
- Rushton, A., Baker, P., Croucher, P. (2014) The Handbook of Logistics and Distribution Management: Understanding the Supply Chain. KoganPage, London.
- Waters, D. (2003). Global Logistics and Distribution Planning: Strategies for Management. KoganPage, London.

Cilji in kompetence:

- Študenti:
- razumejo in identificirajo priložnosti za izboljšanje učinkovitosti distribucijskega sistema in zmanjšanje stroškov,
 - uporabijo znanje za določitev potreb po opremi in orodjih ter kadrih,
 - uporabijo znanje za načrtovanje distribucijskega sistema in znotraj njega transportnih procesov in virov glede na zahteve oskrbovalne verige,
 - pridobijo sposobnost iskanja partnerjev,
 - analizirajo in napovedujejo uspešnosti distribucije,
 - razumejo razvoj načrta ukrepanja v izrednih razmerah,
 - osvojijo identifikacijo in implementacijo sodobnih rešitev v distribucijski sistem,
 - uporabijo znanje za iskanje in izbire ponudnikov ter organizacija transporta,
 - uporabijo vzorčnih programskih orodij za distribucijo in analizo rezultatov.

Objectives and competences:

- Students will:
- understand and identify opportunities to improve the efficiency of the distribution system and reduce costs,
 - apply knowledge to determine the need for equipment and tools and personnel,
 - apply knowledge to determine to design the distribution system and its transportation processes and resources according to the requirements of the supply chain,
 - acquire the ability to find partners,
 - analyze and predict distribution performance,
 - understand the development of an emergency plan,
 - apply knowledge to determine implement identification and implementation of modern solutions in the distribution system,
 - use the knowledge to find and select providers and organize transport,
 - apply the use of software tools for distribution and analysis of results.

Predvideni študijski rezultati:

- Znanje in razumevanje:
- pomena distribucije v sistemu oskrbovalne verige,
 - pomena transporta v distribuciji,
 - rešitev za načrtovanje, spremljanje in optimiziranje distribucijskih procesov,
 - pomembnosti zagotavljanja resursov za distribucijske operacije.
- Prenosljive/ključne spretnosti in drugi atributi:

Intended learning outcomes:

- Knowledge and understanding:
- of the importance of distribution in the supply chain system,
 - of the importance of transport in distribution,
 - of solution for planning, monitoring and optimization of distribution processes,
 - of the importance of providing resources for distribution operations.
- Transferable/Key Skills and other attributes:

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

- 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 %) / Share (in %)	Assessment methods:
<ul style="list-style-type: none"> • Opravljene obveznosti e-predavanj in e-vaj so pogoj za pristop k izpitu. 		<ul style="list-style-type: none"> • Successful completion of e-lectures and e-tutorials is a prerequisite for entering the exam.
<ul style="list-style-type: none"> • Pisni izpit. 	70%	<ul style="list-style-type: none"> • Written examination.
<ul style="list-style-type: none"> • Ocena iz vaj. 	30%	<ul style="list-style-type: none"> • Grade from tutorials.

Reference nosilca / Course coordinator's references:

- 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].
- TOPOLŠEK, Darja, AREH, Igor, CVAHTE OJSTERŠEK, Tina. Examination of driver detection of roadside traffic signs and advertisements using eye tracking. Transportation research. Part F, Traffic psychology and behaviour, ISSN 1369-8478. [Print ed.], Nov. 2016, vol. 43, str. 212-224, ilustr. <http://dx.doi.org/10.1016/j.trf.2016.10.002>, doi: 10.1016/j.trf.2016.10.002. [COBISS.SI-ID 3228394].
- 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, CVAHTE OJSTERŠEK, Tina. Transportna logistika: e-gradivo. Celje: Fakulteta za logistiko, 2016. 268 str., grafi. [COBISS.SI-ID 512938045].