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 1st 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		**AV 18**	**EV 24**	**LV 3**			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:	**Prerequisites for enrolling in the course or for performing study obligations:**
Ni pogojev.	None.

Vsebina (kratek pregled učnega načrta):	**Content (syllabus outline):**
• Vloga distribucije v oskrbovalni verigi. • Struktura distribucijske mreže. • Konkurenčni dejavniki, stroški in strategije distribucije. • 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. • Spremljanje operacij v transportu in distribuciji. • Spremljanje, analiziranje in uvajanje sprememb v transportu.	• The role of distribution in the supply chain. • Distribution network structure. • Competitive factors, costs and distribution strategies. • 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. • Monitoring transport and distribution operations.

• Usmerjanje vozil in izdelava načrta ukrepanja v izrednih razmerah.	• Monitoring, analyzing and introducing changes in transport. • Routing vehicles and developing an emergency plan.

Temeljni literatura in viri / Reading materials:

- E-gradivo predmeta.
- Brandimarte, P., Zotteri, G. (2007). Introduction to Distribution Logistics. John Wiley & Sons, New Jersey.
- Bektas, T. (2017). Freight Transport and Distribution: Concepts and Optimisation Models. Boca Raton: CRC Press, Taylor & Francis Group.
- Rushton, A., Baker, P., Croucher, P. (2014) The Handbook of Logistics and Distribution Management: Understanding the Supply Chain. KoganPage, London.
- Ross, D. F. (2015). Distribution Planning and Control: Managing in the Era of Supply Chain Management. New York: Springer New York Heidelberg Dordrecht London.
- Waters, D. (2003). Global Logistics and Distribution Planning: Strategies for Management. KoganPage, London.

Cilji in kompetence:	**Objectives and competences:**
Cilji predmeta so: • predstaviti distribucijski sistem in distribucijsko mrežo v oskrbovalni verigi, • teoretično opredeliti strategije distribucije, • teoretično predstaviti pomen in praktično predstaviti realno okolje transportnega trga, • teoretično definirati in praktično prikazati potek načrtovanja distribucijskega sistema, • podati značilnosti voznega parka, • teoretično predstaviti in praktično izračunati oblikovanje cen transporta in stroškovno učinkovitost, • teoretično podati možnosti spremljanja uspešnosti in učinkovitosti distribucijskega sistema, • podati sisteme usmerjanja vozil in jih praktično preizkusiti z aplikacijami. Kompetence, ki jih pridobijo 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,	The objectives of the course are to: • define the distribution system and distribution network in the supply chain, • theoretically define distribution strategies, • theoretically define and practically present the meaning of the real environment on transport market, • theoretically define and practically present distribution system planning, • present fleet management • theoretically present and practically calculate transport pricing and cost efficiency, • theoretically define possibilities for monitoring the efficiency and effectiveness of the distribution system, • define vehicle guidance systems and practically test them with applications. Competences acquired by students: • 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,

• 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.	• 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:	**Intended learning outcomes:**
Znanje in razumevanje: Študent bo ob zaključku predmeta zmožen: • razumeti pomen distribucije v sistemu oskrbovalne verige, • razumeti pomen transporta v distribuciji, • reševanja, načrtovanja, spremljaja in optimiziranja distribucijskih procesov, • zagotavljati resurse za distribucijske operacije. Prenesljive/ključne spretnosti in drugi atributi: • študenti se usposobijo za uporabo teoretičnega znanja v praktičnih primerih.	Knowledge and understanding: After completion of the course, the student will be able to: • understand the importance of distribution in the supply chain system, • understand the importance of transport in distribution, • solving, planning, monitoring and optimization of distribution processes, • of the importance of provide resources for distribution operations. Transferable/Key Skills and other attributes: • the ability to apply theoretical knowledge to professional practice.

Metode poučevanja in učenja:	**Learning and teaching methods:**
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).	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:**
• 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.	70%	• Written examination.
• Ocena e-predavanj.	5 %	• Grade from e-lectures.
• Ocena laboratorijskih vaj.	10 %	• Grade from laboratory tutorials.
• Ocena e-vaj.	15 %	• Grade from e-tutorials.

Reference nosilca / Course coordinator's references:

- TOPOLŠEK, Darja, ČIŽIUNIENE, 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].