UČNI NAČRT PREDMETA/COURSE SYLLABUS	
Predmet:	SODOBNE LOGISTIČNE TEHNOLOGIJE
Course title:	CONTEMPORARY LOGISTICS TECHNOLOGIES

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
GOSPODARSKA IN TEHNIŠKA LOGISTIKA 1.stopnja		1.	2.
PROFESSIONAL HIGHER EDUCATION STUDY PROGRAMME ECONOMIC AND TECHNICAL LOGISTICS 1st degree		1.	2.

Vrsta predmeta / Course type	OBVEZNI
Univerzitetna koda predmeta / University course code:	VS

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			150	8

Nosilec predmeta / Lecturer:	DARJA TOPOLŠEK

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

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	Prerequisits:
Ni pogojev.	None.

Vsebina:	Content (Syllabus outline):
Tehnološki razvoj v logistiki in oskrbovalnih verigah. Značilnosti, struktura in principi logističnih tehnologij. Vloga tehnologij v logističnih aktivnostih. Spremljanje, vrednotenje in uvajanje tehnoloških trendov v logistične aktivnosti. Kreiranje podlag za upravljanje logističnih tehnologij. Tehnološka podpora posameznim fazam in aktivnostim logističnih procesov. Tehnologije za podporo sodobnih konceptov logistike in oskrbovalnih verig (vitka, zelena, integrirana…). Uporaba logističnih tehnologij za ustvarjanje konkurenčnih prednosti. Trendi razvoja logističnih tehnologij. Zemljevid tehnologij.	Technological development in logistics and supply chains. Characteristics, structure and principles of logistics activities. The role of technology in logistics activities. Monitoring, assessing and implementing technological trends into logistics activities. Creating the basis for managing logistics technologies. Technological support for individual phases and activities of logistics processes. Technologies for supporting contemporary concepts in logistics and supply chains (lean, green, integrated…). Use of logistics technologies for creating competitive advantages. Development trends in logistics technologies. Technology roadmap.

Temeljni literatura in viri / Readings:

E-gradivo predmeta.
Tolfree, d. & Smith, A. (2009). Roadmapping emergent Technologies: Planning the Future. Leicester, UK: Matador. ISBN 978-1848760-998.
Rushton, A., Croucher, P. & Baker, P. (2014). The handbook of logistics & distribution management. Kogan Page Ltd. ISBN 978 0 7494 6627 5.
Ballou, R.H. (2004). Business logistics/supply chain management, Prentice- Hall Inc., ISBN 0-13-123010-7.

Taylor, G. D. (2009). Introduction to logistics engineering. Taylor&Francis. ISBN 9781420088571.

Cilji in kompetence:	Objectives and competences:
Študenti pri tem predmetu: • spoznajo pomen tehnologij za snovanje, delovanje in spremljanje aktivnosti v logistiki in oskrbovalnih verigah, • razumejo potrebo po neprestanem spremljanju in posodabljanju tehnološke podpore izvajanja logističnih aktivnosti, • spoznajo tehnološki vidik posameznih logističnih aktivnosti in elementov, • spoznajo trenutne tehnološke trende na področju logistike, • spoznajo postopke načrtovanja tehnološkega razvoja logistike in povezanih aktivnosti v organizaciji.	Students will: • get to know the importance of technologies for developing, functioning and monitoring activities in logistics and supply chains, • understand the need to constantly monitor and update technological support of logistic activities, • get to know the technological viewpoint of logistics activities and elements, • get to know current technological trends in the logistics field, • learn methods of planning the technological development of logistics and connected activities in an organization.

Predvideni študijski rezultati:	Intended learning outcomes:
Študentje po končanih obveznostih: • poznajo tehnološke potrebe posameznih logističnih aktivnosti in procesov, • prepoznajo priložnosti in potrebe za uvajanje tehnoloških rešitev v posameznih segmentih logistike, • razumejo logistične strategije, aktivnosti in elemente z vidika podpornih tehnologij, • so sposobni prepoznati potrebe po razvoju ali uvajanju tehnoloških rešitev v posamezne segmente delovanja podjetja. Prenesljive/ključne spretnosti in drugi atributi: študenti se usposobijo za uporabo teoretičnega znanja v praktičnih primerih.	After finishing the course, students: • know technological needs of individual logistics activities and processes, • identify opportunities and needs for implementing technological solutions into individual segments of logistics, • understand logistics strategies, activities and elements from the viewpoint of supportive technologies, • are capable to recognise the need for technological development or implementation of technological solutions into individual segments of a company's functioning. 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, 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 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:

• Pisni izpit. • Ocena iz vaj (seminarska naloga in sprotno delo). • Opravljene obveznosti e-predavanj in e-vaj ter izdelana seminarska naloga so pogoj za pristop k izpitu.	• 70% • 30%	• Written examination. • Tutorial grade (seminar paper and individual assignments). • Completed assignments from e-lectures and e-tutorials and a completed seminar paper are prerequisites for attending the written examination.

Reference nosilca / Lecturer's references:

1. STERNAD, Marjan, CVAHTE, Tina, TOPOLŠEK, Darja, JUSTINEK, Gorazd. The influence of logistics barriers on lead times and service levels in Slovenia. International journal of logistics systems and management, ISSN 1742-7975. [Online ed.], 2016, vol. 23, no 4, str. 519-533.
2. CVAHTE, 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.
3. TOPOLŠEK, Darja, HERBAJ, Elvis Alojzij, STERNAD, Marjan. The accuracy analysis of measurement tools for traffic accident investigation. Journal of transportation technologies, ISSN 2160-0473, Jan. 2014, vol. 4, no. 1, str. 84-92.
4. TOPOLŠEK, Darja, MRNJAVAC, Edna, KOVAČIĆ, Nataša. Integration of travel agencies with transport providers. Tourism management perspectives, ISSN 2211-9736, Jan. 2014, vol. 9, str. 14-23.
5. TOPOLŠEK, Darja, HRIBAR, Suzana, STERNAD, Marjan. Road traffic safety in conjunction with in-vehicle ITS. Transport problems, ISSN 1896-0596. [Printed ed.], 2014, vol. 9, iss. 2, str. 49-60.
6. TOPOLŠEK, Darja, ČURIN, Andreja. The role of employee relations in the level of internal integration between logistics and marketing functions : the case of Slovenian retail companies. Organizacija, ISSN 1318-5454, jan.-feb. 2012, letn. 45, št. 1, str. 3-13.
7. STERNAD, Marjan, TOPOLŠEK, Darja, KNEZ, Matjaž. The case of Slovenian international comparative advantage in logistics services. Strategic management, ISSN 1821-3448, 2012, vol. 17, no. 2, str. 22-30.
8. TOPOLŠEK, Darja. The impact of understanding duties at the level of internal integration between logistics and marketing functions: Case of Slovene retailers. African journal of business management, ISSN 1993-8233, 18. March 2011, vol. 5, 6.
9. STERNAD, Marjan, SAFRAN, Matjaž, TOPOLŠEK, Darja. International comparative advantage in transport services: : the case of Slovenia. Montenegrin journal of economics, ISSN 1800-5845, 2011, vol. 8, no. 1, str. 179-186.
10. TOPOLŠEK, Darja. Implementing activities within the framework of logistic and marketing functions and their influence on their level of integration. Logistics & sustainable transport, ISSN 2232-4968. [Spletna izd.], 17-03-10, vol. 1, iss. 5, 14 str.
11. TOPOLŠEK, Darja, ČIŽMAN, Anton, LIPIČNIK, Martin. Collaborative behaviour as a facilitator of integration of logistic and marketing functions : the case of Slovene retailers. Promet, ISSN 0353-5320, 2010, vol. 22, no. 5, str. 353-362.