UČNI NAČRT PREDMETA/COURSE SYLLABUS	
Predmet:	LOGISTIČNI CENTRI
Course title:	LOGISTICS CENTRES

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
LOGISTIKA SISTEMOV 2.stopnja		2.	3.
SYSTEM LOGISTICS 2nd degree		2.	3.

Vrsta predmeta / Course type   IZBIRNI

Univerzitetna koda predmeta / University course code: MAG

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		19 e-V 21 a-V			65	5

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):
• Osnovne značilnosti LC (koncepti, razvoj LC, pravna podlaga, definicija, razvrstitev, funkcije, vplivi LC) • Cluster analiza LC • Specifične oblike in izpeljanke LC – distribucijski centri, tovorni terminali, LC za specifične potrebe • Proces načrtovanja in vzpostavljanja LC • Kje, zakaj in koliko LC • Načela določanja lokacij LC • Upravljanje LC • Osnove reševanja Infrastrukturnih in organizacijskih problemov (problemi strateškega in organizacijskega vidika) • Študije primerov različnih LC	• Basic characteristics of LC (concept, development of LC, legal basis, definition, classification, functions and impacts of LC) • Cluster analysis of LC • Specific forms of LC – distribution centres, cargo terminals, LC for specific needs • The process of planning ans establishing LC • Where, why and how many LCs • Principles of- determining LC locations • LC management • Basics of solving infrastructure and organisational problems (problems of strategic and operational logistics) • Case studies of different types of LC

Temeljni literatura in viri / Readings:

E-gradivo predmeta.
Načrtovanje logističnih centrov [e-gradivo].
Ballou Ronald H.: Business Logistics Management. London : Prentice–Hall International, 1999.
Boland Natashia et al.: Preprocessing and cutting for multiple allocation hub location problems. European Journal of Operational Research, Amsterdam, 155(2004).
Campbel James F.: Integer programming formulations of discrete hub location problems. European Journal of Operational Research, Amsterdam, 72(1994).
Ebery Jamie et al.: The capacitated multiple allocation hub location problem: Formulations and algorithms. European Journal of Operational Research, Amsterdam, 120(2000).
Europe'sMost Wanted Distribution Center Locations, Capgemini & Prologis – project.
Toth Paolo, Vigo Daniele: The Vehicle Routing Problem. Philadelphia : Society for Industrial and Applied Mathematics. 2001.
Žerovnik Janez: Računanje centrov na uteženih grafih. Dnevi slovenske informatike, Portorož, 14.–16. april 2004. Management in informatika. Zbornik posvetovanja. Ljubljana : Slovensko društvo Informatika, 2004.

Cilji in kompetence:

Študent bo:
- znal opredeliti in načrtovati logistične centre,
- znal prepoznati ključne vidike upravljanja logističnih centrov.

Objectives and competences:

Student will:
- be able to define and plan logistics centres,
- be able to manage key aspects of logistics centres.

Predvideni študijski rezultati:

Poznavanje in razumevanje osnovnih konceptov logističnih centrov.
Poznavanje načel določanja lokacije LC.
Sposobnost upravljanja logističnih centrov.
Poznavanje infrastrukturnih problemov.
Poznavanje organizacijskih problemov.

Usposobili se bodo za prepoznavanje problemov pri načrtovanju in vzpostavljanju logističnih centrov ter za upravljanje ključnih vidikov njihovega delovanja.

Intended learning outcomes:

Knowing and understanding basic concepts of logistics centres.
Knowing and understanding principles for determining locations.
The ability to manage logistics centres.
Knowledge of infrastructure problems.
Knowledge of organisational problems.
Students will be qualified for recognising crucial problems in planning and implementing logistics centres and for managing crucial aspects of their operations.

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:
- Pisni izpit. - Raziskovalno delo.	50% 50%	- Written exam. - Research Work.
Opravljene obveznosti e-predavanj in e-vaj so		Successful completion of e-lectures and e-

pogoj za pristop k izpitu.		tutorials is a prerequisite for entering the exam.

Reference nosilca / Lecturer's references:

1. TOPOLŠEK, Darja, CVAHTE OJSTERŠEK, Tina. Do drivers behave differently when driving a car or riding a motorcycle?. European transport, ISSN 2283-5520, 2017, vol. 66, no. 7, str. 1-16, ilustr. http://www.istiee.org/te/papers/N66/P07_66_12_2017.pdf. [COBISS.SI-ID 512882493]
2. STERNAD, Marjan, CVAHTE OJSTERŠEK, 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. http://dx.doi.org/10.1504/IJLSM.2016.075213, doi: 10.1504/IJLSM.2016.075213. [COBISS.SI-ID 512756029]
3. 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]
4. CVAHTE OJSTERŠEK, Tina, STERNAD, Marjan, TOPOLŠEK, Darja. Supporting changes in the Slovenian wood sector by introducing timber logistics centres. International journal of globalisation and small business, ISSN 1479-3059, 2015, vol. 7, no. 1, str. 73-91, ilustr. http://www.inderscience.com/info/inarticle.php?artid=69026, doi: 10.1504/IJGSB.2015.069026. [COBISS.SI-ID 512672829]
5. KRAMAR, Uroš, CVAHTE OJSTERŠEK, Tina, STERNAD, Marjan, TOPOLŠEK, Darja. Designing a strategic mobility plan for small and medium sized cities using a multi-stage methodology : case of Celje. Spatium : urban and spatial planning, architecture, housing, building, geodesia, environment, ISSN 1450-569X, 2015, iss. 33, str. 47-54. [COBISS.SI-ID 512685885]
6. MRNJAVAC, Edna, KOVAČIĆ, Nataša, TOPOLŠEK, Darja. The logistic product of bicycle destination. Tourism and hospitality management, ISSN 1330-7533, 2014, vol. 20, no. 2, str. 171-184. [COBISS.SI-ID 512612669]
7. 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, doi: http://dx.doi.org/10.1016/j.tmp.2013.11.003. [COBISS.SI-ID 512553277]
8. TOPOLŠEK, Darja, CVAHTE OJSTERŠEK, Tina. Exploring public attitudes towards urban access regulation schemes : case of Maribor. V: BRDULAK, Anna (ur.), BRDULAK, Halina (ur.). Happy city : how to plan and create the best livable area for the people, (Ecoproduction, ISSN 2193-4614). [S. l.]: Springer. cop. 2017, str. 303-318, ilustr. https://link.springer.com/chapter/10.1007/978-3-319-49899-7_17. [COBISS.SI-ID 512833085]

Opomba:
Navedene sestavine so obvezna sestavina učnega načrta predmeta kot ga določajo Merila za akreditacijo visokošolskih zavodov in študijskih programov v 7. členu (Ur. l. RS, št. 101/2004).