

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Ime predmeta: MESTNA LOGISTIKA IN MOBILISTIKA
Course title: CITY LOGISTICS AND MOBILISTICS

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

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

OBVEZNI
COMPULSORY

Univerzitetna koda predmeta / University course code:

MAG

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Clinical training	Druge oblike študija Other forms of study	Samost. delo Individual work	ECTS
20 e-P 25 a-P		15 e-V 25 a-V			125	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):

- Uvod v sistem mestne logistike
- Temeljni koncepti mestne logistike
- Logistični sistemi za trajnostna mesta
- Vpliv mestne logistike in transporta na razvoj mest
- Urbana okolja in njihov vpliv na logistične in transportne procese
- Trajnostna mobilnost in trajnostni razvoj mestne logistike
- Transportni sistemi v mestih in njihove značilnosti
- Povpraševanje in modeli oskrbe
- Urbani konsolidacijski centri
- Upravljanje z mobilnostjo v mestih
- Značilnosti mobilistike
- Mobilistika in prometna politika
- Kakovost v mobilistiki
- Mobilistični procesi po prometnih vejah
- Primeri uspešnih praks iz Evrope in sveta

Content (syllabus outline):

- Introduction to city logistics systems
- Basic concepts in city logistics
- Logistics systems in sustainable cities
- The influence of city logistics and transport on city development
- Urban environments and their influence on logistics and transport systems
- Sustainable mobility and sustainable development of city logistics
- Transport systems in cities and their characteristics
- Demand and supply models
- Urban consolidation systems
- Managing city mobility
- Characteristics of mobilistics
- Mobilistics and transport policy
- Quality in mobilistics
- Mobilistic processes in different transport systems
- Case studies in Europe and worldwide

Temeljni literatura in viri / Reading materials:

- E-gradivo predmeta.
- Wolfram M in, Buhrmann S. [2007]. PILOT projekt: Trajnostno mestno prometno načrtovanje. Priročnik. Rupprecht Consult – Forschung & Beratung GmbH.
- Eiichi Taniguchi. [2001]. CITY logistics : network modelling and intelligent transport systems 1st ed. - Amsterdam: Pergamon.
- OECD - ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT. [2003]- Delivering the Goods. 21st Century Challenges to Urban Goods Transport. Paris: OECD publications.
- Allen, J., Thorne, G. in Browne, M. [2007]. BESTUFS – Primeri dobrih praks tovrnega prometa v urbanih območjih. Konzorcij BESTUFS.
- M. Huschebeck, [2001]. Best urban freight solutions (BESTUFS), deliverable D1.1.
- European commission.
- Portal – Pismo gradivo. [2003]. Upravljanje in brzdaje mestnega prometa [online]: www.eu-portal.net.
- Portal – Pismo gradivo. [2003a]. Benchmarking i upravljanje kakovosti v javnem transportu [online]: www.eu-portal.net.
- QUATTRO – 4th F.P. project – Quality approach in tendering/contracting urban public transport operations – Final report [1998]. [online]: www.quattro-eul.nl/quattro/uk.
- Slovenski standard SIST EN 13816:2003 [2003] Transport – Logistika in storitve – Javni prevoz potnikov – Določitev kakovosti, cilji in merjenje kakovosti storitev. Transportation – Logistics and services – Public passenger transport – service quality definition, targeting and measurement.
- Pauko, F.: Potniško prevoznništvo, učbenik; izdaja v samozaložbi Maribor, 2002; COBISS.SI-ID: 6282268.
- Banister, D: Transport policy and the environment, London, New York, Routledge, 1998, ISBN: 0-419-23140-4, COBISS.SI-ID: 18844677.
- Bull, A.: The economics of travel an Tourism, Longman, Malbourne, 1995, ISBN: 0-582-80731-X, COBISS.SI-ID: 157918.
- Jelinovič, Z.: Ekonomika prometa i pomorstva, Informator, Zagreb, 1983, COBISS.SI-ID: 332302.
- UIRS: Trajnostno mestno prometno načrtovanje, Priročnik.

Dodatna literatura:

- Dnevna mobilnost v Sloveniji (ZRC, SAZU).
- HiTrans: Public transport & Land use planning (Best practice guide 1).
- HiTrans: Public transport – Planning the networks (Best practice guide 2).
- HiTrans: Public transport – Urban design (Best practice guide 3).
- HiTrans: Public transport – Citizens' requirements (Best practice guide 5).
- Proceed, Guidelines: Methods for Market Analysis.
- Transit Capacity and Quality of Service (TRB Manual).
- Hitrans: Public transport – Mode options and technical solutions (Best practice guide 4).
- PROCEED, Guidelines: Management.
- PROCEED, Guidelines: Network and Infrastructure.

Cilji in kompetence:

Cilji predmeta so:

- spoznati značilnosti mestne logistike in transporta,
- posredovati študentu temeljna in specifična, znanja s področja logistike in transporta znotraj urbanih okolij,
- posredovati študentu zavedanje o pomenu upravljanja s transportom in logistiko v mestnih središčih,

Objectives and competences:

Subject goals are:

- introduction to basic characteristics of city logistics and transport,
- to present students with basic and specific knowledge on the field of logistics and transport in urban environments,
- to present students the awareness about the importance of managing transport and logistics in city centres,

- spoznati celovit pristop k reševanju mestne problematike na področju logistike in transporta,
- spoznati trende na področju reševanja negativnih vplivov logistike in transporta znotraj urbanih okolij,
- spoznati uspešno prakso pri reševanju problemov logistike in transporta v urbanih okoljih,
- implementacija uspešne prakse v konkretne probleme,
- pridobijo poglobljena znanja s področja mobilistike,
- usvojijo specifični strokovni jezik,
- se usposobijo za praktično delo zlasti v mestni logistiki in mobilistiki.

- introduce students to holistic approaches to managing the problematic in urban logistics and transport,
- introduce students to trends on the field of managing negative influences of logistics and transport in urban environments,
- introduce students to successful practices in solving problems of logistics and transport in urban environments,
- implementing successful practices to concrete problems,
- to present students with comprehensive knowledge from the field of mobilistics,
- to introduce students to specific professional language and terms,
- to qualify students for practical work in city logistics and mobilistics.

Predvideni študijski rezultati:

Znanje in razumevanje:

- Razumevanje pomena upravljanja z logistiko v urbanih okoljih.
- Poznavanje in razumevanje vplivov logistike in transporta na razvoj urbanih središč.
- Spoznati transportni sistem znotraj mest.
- Spoznati različne pristope k reševanju problemov mestne logistike in transporta v mestih.
- Razumevanje transportnega sistema v mestih.
- Spoznati pomen celovitega pristopa k reševanju problematike logistike in transporta mestih.
- Razumeti sistemski pristop pri iskanju rešitev za mestno logistiko in transport v mestih.

Prenesljive/ključne spretnosti in drugi atributi:

- Sposobnost uporabe različnih pristopov, metod in tehnik pri reševanju problemov logistike v mestih.
- Reševanje problemov in organizacijske sposobnosti .
- Iskanje celovitih trajnostnih rešitev.
- Kritično in sistemsko razmišljanje.
- Razumevanje urbanih okolij z njihovimi značilnostmi.
- Študenti se oblikujejo kot samostojno misleči in v reševanje problemov usmerjeni ljudje.
- Sposobnost sodelovati v pripravi državnih, regijskih, mestnih razvojnih dokumentov in načrtov (prostorski, mobilnostni, okoljsko-energetski, prometno varnostni...).

Intended learning outcomes:

Knowledge and Understanding:

- Understanding of importance of managing logistics in urban environments.
- Knowledge and understanding of logistics and transport influence on the development of urban centres.
- Knowledge of transport systems in cities.
- Knowledge of different approaches to solving problems of city logistics and transport in cities.
- Understanding transport systems in cities.
- Knowledge of the importance of holistic approaches to solving the problematics of city logistics and transport.
- Understanding the systems approach to solving the problematics of city logistics and transport.

Transferable/Key Skills and other attributes:

- Ability to use different approaches, methods and techniques in solving the problematics of city logistics and transport.
- Solving problems and organizational skills.
- Searching for holistic sustainable solutions.
- Critical and systems thinking.
- Understanding of urban environments with their characteristics.
- Students develop independent thinking abilities and become problem solving directed persons.
- Ability to cooperate in national, regional, urban development documents and plans (spatial, mobilistic, environmental, energetic, transport safety...).

- Obvladati procese načrtovanja, naročanja in kontrole storitev JPP.
- Na praktičnem primeru prepoznati postopke (pasti, napake iz preteklosti) konkretnega, v praksi izpeljanega postopka.

- Master planning, ordering and control processes in public transport.
- Identify traps and flaws in procedures on a concrete, practical example.

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:
Opravljenosti 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.	50%	Written examination.
Seminarska naloga.	30%	Seminar paper.
Aktivno sodelovanje na vajah.	20%	Active participations in tutorials.

Reference nosilca / Course coordinator's references:

- TOPOLŠEK, Darja. Mobilistika - logistika v potniškem prevozništvu : e-gradivo pri predmetu. Celje: Fakulteta za logistiko, 2010. 1 CD-ROM, graf. prikazi. [COBISS.SI-ID 512274493].
- TOPOLŠEK, Darja, LIPIČNIK, Martin, CIZEJ, Rok, ČREŠNIK, Ino, GRANFOLA, Sandra, GROS, Nuša, KRIŽAN, Anita, NAVERŠNIK, Maja, POGELŠEK, Špela, POŽLEP, Vanja, SENČAR, Jerneja, ŠAFRAN, Mirica, ŠTUHEC, Tanja, UŽMAH, Simona, VIZINGER, Tea, ZABUKOVEC, Darja, TAJNIK, Suzana. Načrt trajnostne mobilnosti v povezavi z vzpostavitvijo krožne linije mestnega potniškega prometa na območju Mestne občine Celje : študija primera : poročilo projekta, aplikativni-raziskovalni. Celje: Fakulteta za logistiko, 2010. 1 CD-ROM. [COBISS.SI-ID 512207421].
- ROSI, Bojan, STERNAD, Marjan, TOPOLŠEK, Darja, ČABRAJA, Toni, ZUPANČIČ, Aleksander, HOTKO, Slavko, LAPUH, Andreja. Gospodarsko središče Feniks v Posavju : alternativne lokacije logističnega središča. Krško: Valvazorjev raziskovalni center: = Valvasor's research centre, 2009. 46 str., ilustr., graf. prikazi. [COBISS.SI-ID 512167997].
- ROSI, Bojan, KRIŽANIČ, France, ČABRAJA, Toni, STERNAD, Marjan, TOPOLŠEK, Darja, ZUPANČIČ, Aleksander, STRAŠEK DODIG, Mojca, LOŽAR, Primož, OGOREVC, Suzana, BOŽINOVIČ, Maja, HOTKO, Slavko, ČABRAJA, Marko, LAPUH, Andreja, KOLENC, Urša. Gospodarsko središče Phoenix v Posavju : strokovne podlage za izdelavo državnega prostorskega načrta. Krško: Valvazorjev raziskovalni center: = Valvasor's research centre, 2008. 163, 46 str., ilustr., graf. prikazi. [COBISS.SI-ID 512107325].

- STERNAD, Marjan, SAFRAN, Matjaž, TOPOLŠEK, Darja. International comparative advantage in transport services: : the case of Slovenia. Montenegrin journal of economics, 2011, vol. 8, no. 1, str. 179-186. [COBISS.SI-ID 512414269].
- LIPIČNIK, Martin, TOPOLŠEK, Darja. European logistics strategies. Strategijski menadžment, 2008, god. 13, br. 1, str. 2-9. [COBISS.SI-ID 512106557].
- TOPOLŠEK, Darja, ŽNIDAR, Branko. Logistika novog tisućljeća - smanivanje troškova i kreiranje vrijednosti. Suvremeni promet, 2005, vol. 25, no. 1/2, str. 91-93. [COBISS.SI-ID 12401717]
- TOPOLŠEK, Darja, CVAHTE, Tina. V službi hitrega pretoka blaga. Finance, 20. jan. 2012, št. 14, str. 20. [COBISS.SI-ID 15690037].
- TOPOLŠEK, Darja, STERNAD, Marjan, ROSI, Bojan. Centri so del oskrbovalne verige : distribucijski in logistični centri morajo biti vpeti v zagotavljanje konkurenčnosti celotne oskrbovalne verige. Finance, 12. nov. 2010, št. 220, str. 30-31, fotografija. [COBISS.SI-ID 512282941].
- KRAMAR, Uroš, LIPIČNIK, Martin, TOPOLŠEK, Darja. Contemporary issues in public transport system = Savremeni trendovi u sistemu javnog saobraćaja. V: KATIĆ, Vladimir (ur.). XIV Internacionalni naučni skup SM2009 "Strategijski menadžment i sistemi podrške odlučivanju u strategijskom menadžmentu", Subotica-Palić, 21-22 maj, 2009 godine = 14th International Scientific Symposium SM2008 "Strategic Management and Decision Support Systems in Strategic Management", Subotica-Palic, 21-22 may, 2009. Zbornik radova. Subotica: Ekonomski fakultet, 2009, 12 f. [COBISS.SI-ID 512170301].
- TOPOLŠEK, Darja, LIPIČNIK, Martin. Distribution centre location model. V: KOVALEV, Ivan Vladimirovich (ur.). IV International scientifically-practical conferences (on February, 5-6th 2009, Krasnojarsk). Logistika i ekonomika regionov : materialy IV Meždunarodnoj naučno-praktičeskoj konferencii (5-6 febral' 2009, Krasnojarsk) : materials IV International scientifically-practical conferences (on February, 5-6th 2009, Krasnojarsk). Krasnojarsk: Sibirskij gosudarstvennyj aerokozmičeskij universitet imeni akademika M. F. Rešetneva, cop. 2009, str. 40-44. [COBISS.SI-ID 512115005].