

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	TRANSPORTNE TEHNIKE, TEHNOLOGIJE IN INFRASTRUKTURA
Course title:	TRANSPORTATION TECHNIQUES, TECHNOLOGY AND INFRASTRUCTURE

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
GOSPODARSKA IN TEHNIŠKA LOGISTIKA 1. stopnja		2.	4.
PROFESSIONAL HIGHER EDUCATION STUDY PROGRAMME ECONOMIC AND TECHNICAL LOGISTICS 1. degree			

Vrsta predmeta / Course type: IZBIRNI

Univerzitetna koda predmeta / University course code: VIS

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: MARTIN IVAN LIPIČNIK

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

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:

Prerequisites:

Ni pogojev

None

Vsebina:

Content (Syllabus outline):

- Splošno o tehniki, tehnologiji in infrastrukturi.
- Transportne tehnike, tehnologije in infrastruktura cestnega prometa.
- Transportne tehnike, tehnologije in infrastruktura železniškega prometa.
- Transportne tehnike, tehnologije in infrastruktura zračnega prometa.
- Transportne tehnike, tehnologije in infrastruktura vodnega prometa.
- Transportne tehnike, tehnologije in infrastruktura notranjega transporta.
- Transportne tehnike, tehnologije in infrastruktura logističnih terminalov.
- Transportne tehnike, tehnologije in

- Definition and basic concepts of technique, technology and infrastructure.
- Transportation technique, technology and infrastructure of road traffic.
- Transportation technique, technology and infrastructure of railway traffic.
- Transportation technique, technology and infrastructure of air traffic.
- Transportation technique, technology and infrastructure of water traffic.
- Transportation technique, technology and infrastructure of internal transport.
- Transportation technique, technology and infrastructure of logistics terminals.

- infrastruktura cevovodnih transportov.
- Transportne tehnike, tehnologije in infrastruktura žičniških transportov.
- Transportne tehnike, tehnologije in infrastruktura transporta z zrakoplovi.
- Pan-evropski koridorji in transportne tehnologije v povezavi s tehniko in infrastrukturo.
- Trendi transportne tehnike, tehnologije in infrastrukture.

- Transportation technique, technology and infrastructure of pipelines.
- Transportation technique, technology and infrastructure of cable railway.
- Transportation technique, technology and infrastructure of airships and balloons.
- Pan-European transportation corridors and transportation technology linking technique and infrastructure.
- Trends of transportation technique, technology and infrastructure.

Temeljni literatura in viri / Readings:

Lipičnik, M., Topolšek, D. Logistična infrastruktura, e-gradivo, 2008 FL
 Gajšek, B. Osnove transportnih tehnologij, e-gradivo, 2008 FL
 Zelenika, R., Jakomin, L.: Suvremeni transportni sustavi, Rijeka 1995
 Kastelič, M: Bela knjiga o transportu, Transport, Ljubljana, 2002
 The Trans-European transport network, Brussels: European Commission, 1997
 Submission by ECMT to the 3rd Pan-European Transport Conference, Berlin, 1997
 Lipičnik, M.: Ceste, Zvezek 1, 2, Visoka tehniška šola, Maribor, 1981
 Kolenc, J.: Infrastruktura cestnega prometa, Fakulteta za pomorstvo in promet, Portorož, 1997
 Zgonc, B.: Železniški promet, Fakulteta za pomorstvo in promet, Portorož, 2003
 Parametric modeling in rail capacity planning, Winter Simulation Conference, P.A.Farrington, 1999
 Wells, A., T.,Young, S., B.: Airport Planning and Management, 5th edition, McGraw-Hill, New York, 2003

Cilji in kompetence:

- Študenti:
- osvojijo pojme transportna tehnika, tehnologija in infrastruktura;
- spoznajo soodvisnost transportne tehnike, tehnologije in infrastrukture;
- spoznajo vrste transportnih tehnik, tehnologij in infrastrukture po posameznih prometnih vejah;
- spoznajo uporabne možnosti transportne tehnike, tehnologije in infrastrukture;
- se naučijo slediti razvoju transportnih tehnik, tehnologij in infrastrukture.

Objectives and competences:

- Students will:
- understand the concepts of transportation technique, technology and infrastructure;
- understand interdependence of transportation technique, technology and infrastructure;
- understand and grasp different transportation technique, technology and infrastructure regards different traffic branch;
- understand applicable possibilities of transportation technique, technology and infrastructure;
- learn to follow the trends of transportation technique, technology and infrastructure.

Predvideni študijski rezultati:

- Znanje in razumevanje:
- Sodobnih transportnih tehnik, tehnologij in infrastrukture;
 - konkretnih možnosti uporabe transportnih tehnik, tehnologij in infrastrukture.
- Prenesljive/ključne spretnosti in drugi atributi:
- študenti se usposobijo za uporabo teoretičnega znanja v praktičnih primerih.

Intended learning outcomes:

- Knowledge and understanding:
- contemporary transportation technique, technology and infrastructure;
 - of concrete possibilities of transportation technique, technology and infrastructure exploitation.
- 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-predavanj (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, part of it in the form of e-learning (e-lectures may be in held via video-conferencing or with the help of specially designed e-materials in a virtual electronic learning environment).

Tutorials: students consolidate their theoretical knowledge and apply it. Part of the lecture course is in a classroom, part of it in the form of e-learning (e-lectures may be in held via video-conferencing or with the help of specially designed e-materials in a virtual electronic learning environment).

Načini ocenjevanja:	Delež (v %) / Weight (in %)	Assessment:
<ul style="list-style-type: none"> ▪ Pismi izpit ▪ Seminarska naloga 	<ul style="list-style-type: none"> ▪ 70% ▪ 30% 	<ul style="list-style-type: none"> ▪ Written examination ▪ Seminar paper

Reference nosilca / Lecturer's references:

1. LIPIČNIK, Martin, TOPOLŠEK, Darja. European logistics strategies. *Strategijski menadžment*, 2008, god. 13, br. 1, str. 2-9.
2. TOPOLŠEK, Darja, LIPIČNIK, Martin. System dynamic model of measures for reducing the number of road accidents due to wrong-way movement on motorways. *Promet (Zagreb)*, 2009, vol. 21, no. 2, str. 85-91.
3. 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.
4. FOŠNER, Maja, LIPIČNIK, Martin. Pedagogical process for teaching quantitative methods in management. *ACBSP annual edition*, 2010, vol. 1, str. 117-128.
5. TOPOLŠEK, Darja, ČIŽMAN, Anton, LIPIČNIK, Martin. Collaborative behaviour as a facilitator of integration of logistic and marketing functions : the case of Slovene retailers. *Promet (Zagreb)*, 2010, vol. 22, no. 5, str. 353-362, tabele, ilustr., graf. prikazi.