

UČNI NAČRT PREDMETA/COURSE SYLLABUS

Predmet:	TRANSPORTNA EKONOMIKA
Course title:	TRANSPORT ECONOMICS

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
GOSPODARSKA IN TEHNIŠKA LOGISTIKA 1. stopnja		3.	5.
PROFESSIONAL HIGHER EDUCATION STUDY PROGRAMME ECONOMIC AND TECHNICAL LOGISTICS 1 st degree		3.	5.

Vrsta predmeta / Course type: IZBIRNI

Univerzitetna koda predmeta / University course code: VS

Predavanja Lectures	Seminar Seminar	vaje Tutorial	Kliničnevaje Laboratory work	Druge oblike študija Field work	Samost. delo Individ. work	ECTS
15 e-P 30 a-P		15 e-V 30 a-V			90	6

Nosilec predmeta / Lecturer: MARJAN STERNAD

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

Pogojizavključitev v delo oz. zaoppravljanještudijskihobveznosti: Ni pogojev. Prerequisites: None.

Vsebina:	Content (Syllabus outline):
<ul style="list-style-type: none"> ▪ Organizacija transporta ▪ Planiranje transportnih poti ▪ Transportni stroški ▪ Incoterms ▪ Tarife in tarifni sistemi ▪ Prometna politka ▪ Značilnosti mednarodnega transporta ▪ Področja inteligentnih transportnih sistemov. ▪ Ekonomika specifičnih vrst transporta (izredni transport, hladne verige) 	<ul style="list-style-type: none"> ▪ Organization of transport ▪ Planning transport routes ▪ Transport costs ▪ Incoterms ▪ Tariff systems ▪ Transport policy ▪ Characteristics of international transport ▪ Research areas of intelligent transport systems. ▪ Economics of specific types of transport (exceptional transport, cold chain)

Temeljniliteratura in viri / Readings:

E-gradivo predmeta.
 Sternad, M. Transportna ekonomika e-gradivo. Celje, 2017.
 Rosi, B., Sternad, M., Sodobni transportni sistemi e-gradivo
 Rosi, B., Sternad, M. Tarifni sistemi, Celje, 2009.
 Rosi, B., Sternad, M. Prometni sistemi e-gradivo. Celje, 2007.
 Button, K. Transport economics, USA, 2010.
 Blauwens, G., De Baere, P., Van de Voorde, E. Transport economics, Antwerpen, 2010.
 Gilbert, R., Perl, A. Transport revolutions, London, 2008.
 Williams, Bob. Intelligent transport systems standards. 2008.
 Stough, Roger. Intelligent transport systems: cases and policies. 2001.
 Mahmassani, H: Transportation and traffic theory, Elsevier science, 2005, ISBN-10: 0080446809.

Cilji in kompetence:

Študenti:

- nadgradijo znanje o transportnem sistemu, transportu in prometni politiki,
- znajo organizirati in planirati transportni proces,
- generično teorijo transporta prenašajo v prakso,
- se naučijo razlikovati sistemski pristop od disciplinarnega razlikovanja prometa in logistike,
- ekonomijo povezujejo s transportom,
- se usposobijo za koherentno uvajanje tehničnih in tehnoloških, organizacijskih in drugih znanj o transportnih sistemih,
- preučujejo in analizirajo ekonomiko posebnih vrst transporta.

Objectives and competences:

Students:

- upgrade knowledge on transport systems, transport and transport policy,
- are able to organize and plan transport processes,
- transport theory transferred to practice,
- learn to differentiate the systemic from the disciplinary approach to traffic and logistics,
- they connect the economy with transport,
- are trained to coherently integrate technical, technological and organizational knowledge on intelligent transport systems,
- study and analyze the economics of specific types of transport.

Predvideni študijski rezultati:

Znanje in razumevanje:

- organizacije in ekonomike transportnih sistemov,
- sistemskega razmišljanja in delovanja,
- stroškovne funkcije,
- kompleksnosti transportnih sistemov.

Prenesljive/ključne spretnosti in drugi atributi:

Študenti se usposobijo za uporabo teoretičnega znanja v praktičnih (poslovnih) primerih.

Intended learning outcomes:

Knowledge and understanding:

- organizations and economics of transport systems,
- systemic thinking and operations,
- cost functions,
- complexities of transport systems.

Transferable/Key Skills and other attributes:

Students learn to apply their theoretical knowledge to practical situations.

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).

Način ocenjevanja:	Delež (v %) / Weight (in %)	Assessment:
<ul style="list-style-type: none"> ▪ Opravljene obveznosti e-predavanj in e-vaj so pogoj za pristop k izpitu. ▪ Pisni izpit. ▪ Seminarska naloga. 	<ul style="list-style-type: none"> ▪ 80 ▪ 20 	<ul style="list-style-type: none"> ▪ Successful completion of e-lectures and e-tutorial is a prerequisite for entering the exam. ▪ Written examination. ▪ Individual course papers.

Reference nosilca / Lecturer's references:

1. STERNAD, Marjan. Transport cost function : case of Slovenian regional rail lines. V: DRAŠKOVIČ, Veselin. *Management and logistics : selected topics*. 1st electronic ed. Czestochowa [etc.]: SPH - Scientific Publishing Hub, 2016, str. 35-53, ilustr. <http://sphub.org/books/management-and-logistics>.
2. 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.

3. 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.

4. 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.

5. STERNAD, Marjan, TOPOLŠEK, Darja. International competitiveness of road and rail transport services. V: SŁADKOWSKI, Aleksander (ur.). *Actual problems of logistics*. Gliwice: Wydawnictwo politechniki Śląskiej, 2012, str. 55-74.

6. 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.

7. STERNAD, Marjan. Competitiveness of regional railways in Slovenia. V: DOLINOV, F. F. (ur.). *Logističeskie sistemy v global'noj èkonomike : materialy V meždunarodnoj naučno-praktičeskoj konferencii (2-3 aprilja 2015 g., Krasnojarsk) = Logistics systems in global economy : proceedings V of international scientific-practical conference, 2-3 April, 2015, Krasnojarsk*. Krasnojarsk: Sibirskij gosudarstvennyj aèrokosmičeskij universitet imeni akademika M. F. Rešetneva, 2015, str. 49-52.

8. STERNAD, Marjan, KNEZ, Matjaž. Pomen obvladovanja logističnih stroškov. V: PEPEVNIK, Anton (ur.). *Logistični sistemi prihodnosti : zbornik = proceedings*, Mednarodni posvet ob 50.letnici Prometne šole Maribor, Maribor, 25. april 2008.