

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Ime predmeta: TRANSPORT V LOGISTIČNEM SISTEMU
Course title: TRANSPORT IN THE LOGISTICS SYSTEM

| Študijski program in stopnja Study programme and cycle | Študijska smer Study option | Letnik Year of study | Semester Semester |
|--|--------------------------------|-------------------------|----------------------|
| GOSPODARSKA IN TEHNIŠKA LOGISTIKA 1. stopnja | | 1. | 2. |
| PROFESSIONAL HIGHER EDUCATION STUDY PROGRAMME ECONOMIC AND TECHNICAL LOGISTICS 1 st degree | | 1. | 2. |

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

OBVEZNI
COMPULSORY

Univerzitetna koda predmeta / University course code:

VS

| Predavanja Lectures | Seminar Seminar | Vaje Tutorial | Klinične vaje Clinical training | Druge oblike študija Other forms of study | Samost. delo Individual work | ECTS |
|------------------------|--------------------|--|---------------------------------------|--|------------------------------------|------|
| 21 e-P 24 a-P | | 21 15 e-V 24 30 a-V | | | 90 | 6 |

**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):

- Vloga transporta v logističnih verigah.
- Značilnosti, infrastruktura, suprastruktura in tehnologije različnih transportnih vej.
- Sodobni vidiki transportnih tehnologij, unitizacije tovora in manipulacij.
- Transportne operacije in procesi.
- Vrste in značilnosti tovorov in blaga in
- Posebni pogoji transporta glede na specifike tovora.
- Varnost pri delu in varovanje tovora v transportu.
- Regulativa in dokumentacija v transportu.

Content (syllabus outline):

- The role of transport in logistics chains.
- Characteristics, infrastructure, suprastructure and technologies of different transport branches.
- Modern aspects of transportation technologies, cargo unitization and manipulation.
- Transport operations and processes.
- Types and characteristics of cargo and goods.
- Special conditions of transport depending on the specifics of the cargo.
- Safety at work and cargo protection during transport.
- Transport regulations and documentation.

Temeljni literatura in viri / Reading materials:

TOPOLŠEK, Darja, CVAHTE OJSTERŠEK, Tina. Transport v logističnem sistemu : visokošolski učbenik. 1st electronic ed. Celje: Fakulteta za logistiko, 2016. ISBN 978-961-6962-18-6. <https://estudij.um.si/mod/data/view.php?id=74418>. [COBISS.SI-ID 284727296].

Topolšek, D. (2012). *Transportne tehnike, tehnologije in infrastruktura* : e-gradivo. Celje: Fakulteta za logistiko UM.

Teodorović, D., Janić, M. (2017). *Transportation Engineering theory, practice and modeling*. Elsevier.

Novack, C. Bardi, G. (2011). *Management of transportation*. Avstralija: South-Western Cengage Learning.

Sarder, M. D. (2021). *Logistics Transportation Systems*. Elsevier.

Cilji in kompetence:

Cilji predmeta so:

- opredeliti transport v logističnem sistemu
- teoretično opredeliti značilnosti posameznih modalitet
- teoretično opredeliti in praktično razložiti sodobne transportne tehnologije
- opredeliti transportne operacije in procese
- opredeliti teoretično in praktično značilnosti blaga in posebne pogoje transporta teh vrst blaga
- teoretično opredeliti sisteme varnosti pri delu in varovanje tovora
- podati regulativni vidik v transportu

Kompetence, ki jih pridobijo študenti:

- spoznajo značilnosti in uporabo transportne infrastrukture, suprastrukture in procesov,
- poznajo načine nadzora in koordinacije transportnih operacij,
- poznajo modalitete transporta in razumejo proces izbire,
- poznajo karakteristike različnih tipov blaga,
- poznajo sodobne transportne tehnologije,
- poznajo sisteme varnosti in varovanja tovora.

Objectives and competences:

The objectives of the course are to:

- define transport in a logistics system,
- theoretically define characteristics of transport modalities,
- theoretically define and practically show contemporary transport technologies,
- define transport operations and processes,
- define theoretical and practical characteristics of goods and special conditions for transporting special cargo,
- theoretically define systems of workplace security and cargo securing,
- define the regulations aspect of transport.

Competencies acquired by students:

- understand the characteristics and use of transport infrastructure, superstructure and processes,
- to know how to monitor and coordinate transport operations,
- learn about transport modalities and understand the selection process,
- to know the characteristics of different types of goods,
- acquainted with modern transport technologies,
- become familiar with cargo security and safety systems.

Predvideni študijski rezultati:

Znanje in razumevanje:

Študent bo ob zaključku predmeta zmožen:

- sprejemati konkretne odločitve o možnostih uporabe infra- in supra-strukture za izvajanje transportnih storitev v logistiki,
- uporabiti sodobne tehnološke transportne elemente,

Intended learning outcomes:

Knowledge and understanding:

After completion of the course, the student will be able to:

- make decisions about possibilities of infra- and suprastructure use for transport services in logistics,
- use contemporary technological transport elements,

- poiskati elemente, ki vplivajo na načrtovanje in izvajanje transportnih operacij.

Prenesljive/ključne spretnosti in drugi atributi:

- študenti se usposobijo za uporabo teoretičnega znanja v praktičnih primerih.

- find elements that affect the planning and executing of transport operations.

Transferable/Key Skills and other attributes:

- the ability to apply theoretical knowledge to professional practice.

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:

Opravljene obveznosti e-predavanj in e-vaj ter izdelana seminarska naloga so pogoj za pristop k izpitu.

- Pisni izpit.
- Ocena e-predavanj.
- Seminarska naloga pri vajah.
- Ocena e-vaj.

70%
5 %
10 %
15 %

Completed assignments from e-lectures and e-tutorials and a completed seminar paper are prerequisites for attending the written examination

- Written examination.
- Grade from e-lectures.
- Seminar paper from tutorials.
- Grade from e-tutorials.

Reference nosilca / Course coordinator's references:

1. TOPOLŠEK, Darja, ČIŽUNIENE, Kristina, CVAHTE OJSTERŠEK, Tina. Defining transport logistics : a literature review and practitioner opinion based approach. Transport, ISSN 1648-4142. [Print ed.], 2018, vol. 33, iss. 5.
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.
3. CVAHTE OJSTERŠEK, Tina, TOPOLŠEK, Darja, STERNAD, Marjan. The impact of clustering on transport companies. Production Engineering Archives, ISSN 2353-5156, 2015, vol. 7, no. 2.
4. 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.
5. TOPOLŠEK, Darja, HRIBAR, Suzana, STERNAD, Marjan. Road traffic safety in conjunction with in-vehicle ITS. Transport problems : international scientific journal, ISSN 1896-0596. [Printed ed.], 2014, vol. 9, iss. 2.