

**UČNI NAČRT PREDMETA / COURSE SYLLABUS**

Predmet:	OSNOVE LOGISTIKE IN TRAJNOSTNIH OSKRBOVALNIH VERIG
Course title:	BASICS OF LOGISTICS AND SUSTAINABLE SUPPLY CHAINS

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

Vrsta predmeta / Course type: OBVEZNI

Univerzitetna koda predmeta / University course code: VS

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			90	6

Nosilec predmeta / Lecturer: MATEVŽ OBRECHT

Jeziki / S/A: Predavanja / Lectures: SLOVENSKO /SLOVENE  
 Languages: S/E: Vaje / Tutorial:

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

Ni pogojev za sodelovanje pri tem predmetu.

Prerequisites:

There are no prerequisites for this course.

Vsebina:

Temeljna področja obravnave predmeta so naslednja:

- Koncept logistike in trajnostnih oskrbovalnih verig
- Vloga in pomen logistike in trajnostnih oskrbovalnih verig v gospodarskem okolju
- Povezava med logistiko in oskrbovalnimi verigami
- Razvoj logistike in trajnostnih oskrbovalnih verig
- Naloge in cilji logistike in trajnostnih oskrbovalnih verig
- Makro procesi znotraj trajnostnih oskrbovalnih verig
- Koncept logističnih aktivnosti
- Logistika kot sistem

Content (Syllabus outline):

Basic areas of **the** course are:

- The concept of logistics and sustainable supply chains
- The role and importance of logistics and sustainable supply chains in the business environment
- The relation between logistics and supply chains
- The development of logistics and supply chains
- The tasks and goals of logistics and sustainable supply chains
- Macro processes in sustainable supply chains
- The concept of logistics activities
- Logistics as a system
- Management of sustainable supply chains

- Upravljanje trajnostnih oskrbovalnih verig
- Tokovi, akterji in dejavniki trajnostnih oskrbovalnih verig
- Planiranje in organiziranje logistike in trajnostnih oskrbovalnih verig
- Upravljanje z operacijami

- Flows, players and factors in sustainable supply chains
- Planning and organization of logistics and sustainable supply chains
- Management of operations
  - Organization and management of supply chain
  - Factors of supply chain
  - Flows of supply chains
  - Process optimization of supply chain
- Cases of good practice about supply chains

#### Temeljni literatura in viri / Readings:

##### Osnovna literature / Essential sources:

##### Izbrana poglavja iz/Some Chapters from:

- Kramar, U. (2014) *Osnove logistike : skripta za predmet*. 1. izd. Celje: Fakulteta za logistiko.
- Rushton, A., Croucher, P. and Baker, P. (2010). *The Handbook of Logistics and Distribution Management 4th ed.* London: Kogan Page Limited
- Slack, N., Brandon-Jones, A. and Johnston, R. (2013). *Operations Management*. Seventh edition. Edinburgh: Pearson Education Limited
- Chopra, S. and Meindl, P. (2013). *Supply chain management: strategy, planning, and operation—5th ed.* Pearson Education, Inc
- Blanchard, D. (2007). *Supply chain management : best practices*. New Jersey: John Wiley & Sons, Inc
- Waters, D. (2003). *Logistics: An Introduction to Supply Chain Management*. Palgrave.
- Boversox, D., Closs, D., Cooper, B. (2012). *Supply Chain Logistics Management*. McGraw-Hill/Irwin. New York.
- Možina, S. (2002). *Management - nova znanjazauspeh*. Radovljica: Didakta.

#### Cilji in kompetence:

Cilj tega predmeta je študentom nuditi osnovna znanja o logistiki, njeni vlogi in pomenu. Prav tako je cilj, da študenti spoznajo in razumejo trajnostne oskrbovalne verige ter pomen strateškega planiranja, organiziranja in uporabljanja logistike in trajnostnih oskrbovalnih verig.

#### Objectives and competences:

In this course students learn about the basics of logistics, its role and importance. Students also learn about and understand sustainable supply chains and the importance of strategic planning, organisation and management of logistics and sustainable supply chains.

#### Predvideni študijski rezultati:

##### Znanje in razumevanje

##### Študenti:

- Obvladajo specifično in poglobljeno znanje s področja logistike in trajnostnih oskrbovalnih verig.
- Se naučijo prepoznavati logistiko in trajnostne oskrbovalne verige ter njihove povezave na področju poslovanja.
- Razvijejo sposobnost interpretacije dobljene rešitve na področju logistike in trajnostnih oskrbovalnih verig.

#### Intended learning outcomes:

##### Development of knowledge and understanding

##### Students:

- Acquire specific and detailed knowledge in the field of logistics and sustainable supply chain.
- Learn to recognize logistics and sustainable supply chain and their inter-connections in the field of business.
- Develop the skills to interpret the gained results in the field of logistics and sustainable supply chain.
- Learn how to analyze and synthesize different

- Se naučijo analizirati in sintetizirati različne poglede na logistiko in trajnostne oskrbovalne verige.
- Se usposobijo za nadaljnje proučevanje na področju logistike in trajnostnih oskrbovalnih verig.

#### Kognitivne/Intelektualne veščine

##### Študenti:

- Pridobijo razumevanje in uporabo kritične analize in razvoja teorij ter njihove uporabe v reševanju konkretnih strokovnih problemov, ob upoštevanju osnovnih usmeritev.
- Pridobijo sposobnost iskanja in sinteze novih informacij s področja logistike in trajnostnih oskrbovalnih verig v literaturi in praksi.
- Se naučijo povezovanja različnih znanj in postopkov ter pomena uporabe strokovne literature o logistiki in trajnostnih oskrbovalnih verigah.
- So sposobni izbrati ustrezno metodo za pridobitev rešitve problema ter znajo presoditi o pomenu in značilnosti zbranih podatkov.
- Znajo identificirati problem iz različnih zornih kotov.

#### Ključne/prenosljive veščine in spretnosti

##### Študenti:

- Dalje razvijajo veščine in spretnosti v uporabi znanja na svojem konkretnem strokovnem delovnem področju.
- Nadgrajujejo sposobnost samostojnega učenja.
- Nadgrajujejo sposobnost uporabe informacijske tehnologije.
- Nadgrajujejo sposobnost in spretnost dela v skupinah.
- Razvijajo komunikacijske sposobnosti za učinkovito strokovno komuniciranje.

#### Praktične veščine

##### Študenti:

- Pridobi praktične izkušnje na področju logistike in trajnostnih oskrbovalnih verig.
- Lahko deluje dokaj samostojno, ob podanih navodilih in delnem nadzoru.

approaches in the field of logistics and sustainable supply chain.

- Are able to pursue further analysis regarding logistics and sustainable supply chain.

#### Cognitive/Intellectual skills

##### Students:

- Understand and apply critical analysis and theory development and their usability in solving real professional problems, with minimum guidance.
  - Get the ability to search for and synthesize new information from the field of logistics and sustainable supply chain in literature and praxis.
3. Synthesize different knowledge and procedures and are aware of importance of use of professional literature about logistics and sustainable supply chain.
  4. Can select appropriate techniques for problem solving and are able to evaluate the importance and significance of data.
  5. Can identify key aspects of problem from different viewpoints.

#### Key/Transferable skills

##### Students:

- Further develop skills and expertise in the use of knowledge in a specific working area.
- Upgrade the ability to become an autonomous learner.
- Upgrade the ability to apply information technology.
- Upgrade the ability to work in groups.
- Further develop their communication skills in an effective manner to effectively and professionally communicate.

#### Practical skills

##### Students:

- Get practical experience in the field of logistics and sustainable supply chain.
- Are able to act autonomously with defined guidelines and certain level of supervision.

Metode poučevanja in učenja:

Learning and teaching methods:

Predmet vključuje različne metode poučevanja in učenja, kot so: predavanja, diskusijske skupine, videopredstavitve in filmi, primeri iz prakse ter predstavitve in samostojni študij študentov.

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).

This course uses a range of teaching methods including lectures, discussion groups, videos and films, case studies, student presentation and independent study of students.

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-seminars 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:
<ul style="list-style-type: none"> <li>▪ Aktivno delo študentov</li> <li>▪ Seminarska naloga</li> <li>▪ Končni pisni izpit</li> </ul>	<ul style="list-style-type: none"> <li>▪ 15 %</li> <li>▪ 15 %</li> <li>▪ 70 %</li> </ul>	<ul style="list-style-type: none"> <li>▪ Active work of students</li> <li>▪ Seminar paper</li> <li>▪ Final written examination</li> </ul>

Reference nosilca / Lecturer's references:

- Rosi, B. (2015). *Modern challenging of logistics: invited lecture, Izmir University of Economics, Turkey, on 21st October 2015.*
- JEREB, Borut, IVANUŠA, Teodora, ROSI, Bojan. Systemic thinking and requisite holism in mastering logistics risks: the model for identifying risks in organizations and supply chain. *Amfiteatru economic*, ISSN 1582-9146, Feb. 2013, vol. 15, no. 33, str. 56-73,
- JEREB, Borut, CVAHTE, Tina, ROSI, Bojan. Mastering supply chain risks. *Advanced engineering*, ISSN 1846-5900, 2012, year 6, no. 2, str. 157-170
- JEREB, Borut, CVAHTE, Tina, ROSI, Bojan. Mastering supply chain risks. *Serbian Journal of Management*, ISSN 1452-4864, 2012, vol. 7, no. 2, str. [271]-285
- Lerher, T., Ekren, B. Y., Sari, Z., Rosi, B. (2016). Method for evaluating the throughput performance of shuttle based storage and retrieval systems. *Tehnički vjesnik*. vol. 23, no. 3, str. 715-723.
- JEREB, B., CVAHTE, T., ROSI, B. Mastering supply chain risks. *Advanced engineering*, 2012, year 6, no. 2, str. 157-170, tabele.
- ROSI, B., MULEJ, M. Diminishing traffic negative impacts over natural environment by a requisitely holistic approach to logistics. *Logistics & sustainable transport*. [Tiskana izd.], 2008, vol. 1, no. 1, str. [1-13].
- JAKOVČIĆ, M., ROSI, B. Strategic role of maintenance in logistics of tomorrow. *Logistics & sustainable transport*. [Tiskana izd.], 2008, vol. 1, iss. 3, f. 25-32.