

## UČNI NAČRT PREDMETA / COURSE SYLLABUS

**Ime predmeta:** TEMELJI LOGISTIKE IN OSKRBOVALNIH VERIG  
**Course title:** FUNDAMENTALS OF LOGISTICS AND SUPPLY CHAINS

Študijski program in stopnja Study programme and cycle	Študijska smer Study option	Letnik Year of study	Semester Semester
LOGISTIKA SISTEMOV 1. stopnja		1.	1.
SYSTEM LOGISTICS 1 <sup>st</sup> degree		1.	1.

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

OBVEZNI  
COMPULSORY

**Univerzitetna koda predmeta / University course code:**

UN

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Clinical training	Druge oblike študija Other forms of study	Samost. delo Individual work	ECTS
24 a-P 6 e-P		6 a-V 4 e-V			80	4

**Nosilec predmeta / Course coordinator:**

UROŠ KRAMAR

**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):**

- Logistika iz zgodovinske perspektive
- Koncepti in načela logistike in oskrbovalnih verig
- Pomen, in vloga logistike v organizacijah
- Logistika kot proces
- Logistika kot sistem
- Členitev logistike na podsisteme in podprocese
- Logistika in dodana vrednost
- Povezava med logistiko in oskrbovalnimi verigami
- Koncept oskrbovalnih verig
- Upravljanje oskrbovalnih verig
- Motnje in odpornost oskrbovalnih verig
- Nastajajoči trendi v logistiki in oskrbovalnih verigah

**Content (syllabus outline):**

- Logistics from a historical perspective
- Concepts and principals of logistics and supply chain
- The importance and role of logistics in organizations
- Logistics as a process
- Logistics as a system
- Breakdown of logistics into sub-systems and sub-processes
- Logistics and added value
- The link between logistics and supply chains
- The concept of supply chains
- Supply chain management
- Disruption and resilience of supply chains
- Emerging trends in logistics and supply chains

### Temeljni literatura in viri / Reading materials:

E-gradivo predmeta.

Kramar, U. (2014) *Osnove logistike : skripta za predmet*. 1. izd. Celje: Fakulteta za logistiko.

Kramar, U. (2022). *Temelji logistike in oskrbovalnih verig. : skripta za predmet*. 1. izd. Celje: Fakulteta za logistiko. (v pripravi)

Izbrana poglavja iz/Some Chapters from:

Rushton, A., Croucher, P. and Baker, P. (2017). *The Handbook of Logistics and Distribution Management 6th ed*. London: Kogan Page Limited.

Christopher, M. (2011). *Logistics and Supply Chain Management* —4th ed. Pearson Education, Inc.

Waters, D. (2003). *Logistics: An Introduction to Supply Chain Management*. Palgrave.

Chopra, S. and Meindl, P. (2016). *Supply chain management: strategy, planning, and operation*—6th ed. Pearson Education, Inc.

Pfohl, H. – C. (2022). *Logistics Systems: Business Fundamentals*," Institute for Business Studies (BWL): Darmstadt Technical University.

### Cilji in kompetence:

Cilji predmeta so:

- Prepoznati in opredeliti vlogo logistike skozi čas
- Pridobiti temeljna znanja o logistiki in oskrbovalnih verigah ter njihovi vlogi v sodobnem svetu.
- Razumeti povezanost logistike in oskrbovalnih verig
- Opredeliti in pojasniti strukturo logistike kot sistema, podsistemov in procesov
- Razumeti vlogo logistike in oskrbovalnih verig pri ustvarjanju dodane vrednosti
- Opredeliti in pojasniti strukturo oskrbovalnih verig
- Pojasniti upravljanje oskrbovalnih verig
- Razumeti vpliv motenj oskrbovalnih verig in pomen povečanja njihove odpornosti
- Seznaniti študente s svetovnimi trendi in povezanostjo z logistiko in oskrbovalnimi verigami

Kompetence, ki jih študentje osvojijo:

- prepoznajo cilje, naloge in vlogo logistike v podjetjih/organizacijah
- pridobijo teoretično znanje s področja razumevanja logistike in oskrbovalnih verig
- identificirajo in interpretirajo logistične podsisteme in procese
- identificirajo in razumejo strukturo oskrbovalnih verig

### Objectives and competences:

The objectives of the course are:

- Recognize and define the role of logistics over time
- To acquire basic knowledge about logistics and supply chains and their role in the modern world.
- Understand the connection between logistics and supply chains
- Define and explain the structure of logistics as a system, subsystems and processes
- Understand the role of logistics and supply chains in creating added value
- Define and explain the structure of supply chains
- Explain supply chain management
- Understand the impact of supply chain disruptions and the importance of increasing their resilience
- To acquaint students with global trends and the connection with logistics and supply chains

Competences acquired by students:

- recognize the goals, tasks and role of logistics in companies/organizations
- acquire theoretical knowledge in the field of understanding logistics and supply chains
- identify and interpret logistics subsystems and processes
  - identify and understand the structure of supply chains
- acquire theoretical knowledge in the field of supply chain management
- understand the impact of supply chain disruptions on the economy

- pridobijo teoretično znanje s področja upravljanja oskrbovalnih verig
- razumejo vpliv motenj oskrbovalnih verig na gospodarstvo
- spoznajo principe odpornosti oskrbovalnih verig
- razumejo povezanost svetovnih trendov, logistike in oskrbovalnih verig

- learn about the principles of supply chain resilience
- understand the connection between global trends, logistics and supply chains

#### **Predvideni študijski rezultati:**

Študent je sposoben:

- definirati logistiko in oskrbovalne verige
- opisati in pojasniti osnovne cilje in naloge logistike ter njeno koristnost
- razložiti vpliv logistike in oskrbovalnih verig na dodano vrednost
- predstaviti in razložiti vlogo logistike skozi čas
- opredeliti in prepoznati logistične podsisteme in procese
- opisati in razložiti vlogo logistike in oskrbovalnih verig v sodobnem gospodarskem okolju
- predstaviti logistiko v Sloveniji in globalnem okolju
- klasificirati dejavnike, ki vplivajo na oskrbovalne verige
- klasificirati ovire pri upravljanju oskrbovalnih verig
- pojasniti strukturo oskrbovalnih verig
- pojasniti vpliv motenj oskrbovalnih verig na gospodarstvo
- razložiti osnovni koncept odpornosti oskrbovalnih verig
- predstaviti svetovne trende in umestiti logistiko v globalne oskrbovalne tokove

#### **Intended learning outcomes:**

The student is able to:

- define logistics and supply chains
- describe and explain the basic goals and tasks of logistics and its usefulness
- explain the impact of logistics and supply chains on added value
- present and explain the role of logistics over time
- define and identify logistics subsystems and processes
- describe and explain the role of logistics and supply chains in the modern economic environment
- present logistics in Slovenia and the global environment
- classify factors affecting supply chains
- classify barriers in supply chain management
- explain the structure of supply chains
- explain the impact of supply chain disruptions on the economy
- explain the basic concept of supply chain resilience
- present global trends and place logistics in global supply flows

#### **Metode poučevanja in učenja:**

Predmet vključuje različne metode poučevanja in učenja, kot so: predavanja, diskusijske skupine, video predstavitve 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

#### **Learning and teaching methods:**

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-

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).

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:
<ul style="list-style-type: none"> <li>• Opravljene obveznosti e-predavanj in e-vaj so pogoj za pristop k izpitu.</li> <li>• Seminarska naloga (v sklopu samostojnega dela).</li> </ul>	20%	<ul style="list-style-type: none"> <li>• Successful completion of e-lectures and e-tutorial is a prerequisite for entering the exam.</li> <li>• Seminar paper (within individual work).</li> </ul>
<ul style="list-style-type: none"> <li>• Pisni izpit.</li> </ul>	80%	<ul style="list-style-type: none"> <li>• Written examination.</li> </ul>

**Reference nosilca / Course coordinator's references:**

- STERNAD, Marjan, SKRÚCANÝ, Tomáš, JEREB, Borut. International logistics performance based to the DEA analysis. *Komunikácie : vedecké listy Žilinskej univerzity*, ISSN 1335-4205, 2018, vol. 20, no. 4, str. 10-15, ilustr. [http://www3.uniza.sk/komunikacie/archiv/2018/4/4\\_2018en.pdf](http://www3.uniza.sk/komunikacie/archiv/2018/4/4_2018en.pdf). [COBISS.SI-ID 512963901], [SNIP, Scopus do 8. 1. 2019: št. citatov (TC): 0, čistih citatov (CI): 0, čistih citatov na avtorja (CIAu): 0].
- JEREB, Borut. Mastering logistics investment management. *Transformations in business & economics*, ISSN 1648-4460, 2017, vol. 16, no. 1, str. 100-120, ilustr. <http://www.transformations.knf.vu.lt/40>. [COBISS.SI-ID 512839485], [JCR, SNIP, WoS do 12. 5. 2019: št. citatov (TC): 3, čistih citatov (CI): 3, čistih citatov na avtorja (CIAu): 3.00, Scopus do 1. 3. 2019: št. citatov (TC): 2, čistih citatov (CI): 2, čistih citatov na avtorja (CIAu): 2.00].
- PEJIĆ, Vaska, LERHER, Tone, JEREB, Borut, LISEC, Andrej. Lean and green paradigms in logistics : review of published research. *Promet*, ISSN 0353-5320. [Print ed.], 2016, vol. 28, str. 593-603, ilustr. <http://dx.doi.org/10.7307/ptt.v28i6.2078>. [COBISS.SI-ID 512817469], [JCR, SNIP, WoS do 15. 9. 2019: št. citatov (TC): 2, čistih citatov (CI): 2, čistih citatov na avtorja (CIAu): 0.50, Scopus do 29. 8. 2019: št. citatov (TC): 4, čistih citatov (CI): 4, čistih citatov na avtorja (CIAu): 1.00].
- JEREB, Borut. Večparametrski odločitveni model za logistike z dodanimi večpredstavnimi vsebinami : visokošolski učbenik z recenzijo. Celje: Fakulteta za logistiko, 2015. ISBN 978-961-6962-15-5. <http://labinf.fl.uni-mb.si/vecparametrski-odlocitveni-model/>. [COBISS.SI-ID 282247936].
- KNEZ, Matjaž, MUNEER, Tariq, JEREB, Borut, CULLINANE, Kevin. The estimation of a driving cycle for Celje and a comparison to other European cities. *Sustainable cities and society*, ISSN 2210-6715. [Spletna izd.], Feb. 2014, vol. 11, str. 56-60, doi: 10.1016/j.scs.2013.11.010. [COBISS.SI-ID 512556349], [JCR, SNIP, WoS do 15. 9. 2019: št. citatov (TC): 15, čistih citatov (CI): 14, čistih citatov na avtorja (CIAu): 3.50, Scopus do 27. 7. 2019: št. citatov (TC): 16, čistih citatov (CI): 15, čistih citatov na avtorja (CIAu): 3.75].