

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Ime predmeta: LOGISTIČNI SISTEMI IN OSKRBOVALNE VERIGE PRIHODNOSTI
Course title: LOGISTICS SYSTEMS AND SUPPLY CHAINS OF THE FUTURE

Študijski program in stopnja Study programme and cycle	Študijska smer Study option	Letnik Year of study	Semester Semester
LOGISTIKA SISTEMOV 3. stopnja		1.	1. in 2.
SYSTEM LOGISTICS 3 rd degree		1.	1. in 2.

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

IZBIRNI
ELECTIVE

Univerzitetna koda predmeta / University course code:

DR

Predavanja Lectures	Seminar Seminar	Vaje Tutorial			Klinične vaje Clinical training	Druge oblike študija Other forms of study	Samost. delo Individual work	ECTS
20		AV	LV	RV			160	6

Nosilec predmeta / Course coordinator:

MATEVŽ OBRECHT

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):

- Znanstveno raziskovalno delo na področju oskrbovalnih verig, logističnih sistemov in logističnih verig ter družbenoekonomskih in tehnoloških trendov v logistiki.
- Filozofija upravljanja, vodenja in nadzora celovitih oskrbovalnih verig.
- Determiranje nalog in izzivov učinkovitega upravljanja z oskrbovalnimi verigami.
- Preučevanje notranjih procesov in odnosov oskrbovalnih verig.
- Modeliranje in optimiranje stanj celovitih in trajnostnih oskrbovalnih verig.

Content (syllabus outline):

- Academic research in the field of supply chains, logistics systems, and logistics chains and socio-economic and technological logistics trends.
- Philosophy of managing, operating and controlling integrated supply chains.
- Determining tasks and challenges of effective supply chain management.
- Studying internal processes and relationships of supply chains.
- Modeling and optimizing integrated and sustainable supply chain situations.

Temeljni literatura in viri / Reading materials:

Handfield, R. B., & Nichols Jr, E. L. (1999). Introduction to. *Supply Chain Management*, Prentice Hall, Englewood Cliffs, NJ.

Zuckerman, A. (2002). *Supply chain management*. Oxford (UK), Capstone.
 Ballou, R. (2006). *Business Logistics/Supply Chain Management*. Academic Internet Publishers, Inc., UK.
 Knolmayer, G. F., Mertens, P., & Zeier, A. (2002). *Supply chain management based on SAP systems: order management in manufacturing companies*. Springer Science & Business Media.
 Jacobs, F. R., Berry, W. L., Whybark, D. C., & Vollmann, T. E. (2011). *Manufacturing Planning and Control for Supply Chain Management: APICS/CPIM Certification Edition*. McGraw-Hill Education.
 OBRECHT, Matevž. *Life cycle management in supply chains : integrating environmental life cycle thinking into supply chain management*, Celje: Faculty of Logistics, 2020. 80 str., ilustr. <http://estudij.um.si/>.

Cilji in kompetence:

Cilji predmeta so:

- razumevanje znanstveno raziskovalnega dela iz področja raziskovanja oskrbovalnih verig,
- razumevanje pristopov upravljanja (naloge in izzivi učinkovitega upravljanja z oskrbovalnimi verigami), vodenja in nadzora celovitih oskrbovalnih verig,
- razumevanje notranjih procesov in odnosov oskrbovalnih verig,
- razumevanje modeliranja notranjih procesov in optimiranja stanj celovitih oskrbovalnih verig.

Kompetence: študent je zmožen uporabiti znanje s področja oskrbovalnih verig (notranjih procesov, odnosov, modeliranja notranjih procesov in upravljanja) tako za potrebe znanstvenega raziskovanja kot tudi v praksi.

Objectives and competences:

The objectives of the course are:

- understanding of scientific research work in the field of supply chain research,
- knowledge of management approaches (tasks and challenges of effective supply chain management), management and control of comprehensive supply chains,
- understanding of internal processes and supply chain relationships,
- understanding the modeling of internal processes and optimizing the state of extended supply chains.

Competences: the student can use knowledge in supply chains (internal processes, relationships, modeling of internal processes and management) both for the needs of scientific research and practice.

Predvideni študijski rezultati:

Po uspešno zaključenem predmetu so študenti zmožni:

- uporabiti rešitve upravljanja, vodenja in nadzora celovitih oskrbovalnih,
- interpretirati raziskovalno področje logistični sistemi in logistične verige,
- oceniti praktičnost rezultatov svojega raziskovalnega dela,
- uporabiti rezultate svojega znanstvenega dela na področju oskrbovalnih verig v praksi,
- razvijati modele notranjih procesov in optimiranja stanj celovitih oskrbovalnih verig.

Intended learning outcomes:

Upon successful completion of this course, students can:

- use solutions for the management, administration, and control of comprehensive care,
- interpret the research field of logistics systems and logistics chains,
- evaluate the practicality of the results of their research work,
- apply the results of their scientific work in the field of supply chains in practice,
- develop models of internal processes and optimization of the state of comprehensive supply chains.

Metode poučevanja in učenja:

- Avditorna predavanja.
- Raziskovalno delo z mentorjem.
- Samostojno raziskovalno delo.

Learning and teaching methods:

- Face-to-face lectures.
- Research work with a mentor.
- Individual research work.

Načini ocenjevanja:	Delež (v %) / Share (in %)	Assessment methods:
samostojno raziskovalno delo	50 %	individual research work
ustni izpit	50 %	oral exam

Reference nosilca / Course coordinator's references:

1. OBRECHT, Matevž. *Integrating life cycle thinking, ecolabels and ecodesign principles into supply chain management*. V: KOLINSKI, Adam (ur.), DUJAK, Davor (ur.), GOLINSKA-DAWSON, Paulina (ur.). *Integration of information flow for greening supply chain management, (Ecoproduction (Berlin. Internet), ISSN 2193-4622)*. Cham: Springer. cop. **2020**, str. 219-249, ilustr. <https://doi.org/10.1007/978-3-030-24355-5>. [COBISS.SI-ID 513020733]
kategorija: 3A (Z, A', A1/2); tip dela je verificiral OSICD
točke: 60, št. avtorjev: 1

2. OBRECHT, Matevž, KAZANCOGLU, Yigit, DENAC, Matjaž. *Integrating social dimensions into future sustainable energy supply networks*. *International journal of environmental research and public health*, ISSN 1660-4601, **2020**, vol. 17, str. 1-18, ilustr. <https://doi.org/10.3390/ijerph17176230>, doi: 10.3390/ijerph17176230. [COBISS.SI-ID 27031299], [JCR, SNIP, WoS do 2. 10. 2020: št. citatov (TC): 0, čistih citatov (CI): 0, čistih citatov na avtorja (CIAu): 0, Scopus do 22. 9. 2020: št. citatov (TC): 0, čistih citatov (CI): 0, čistih citatov na avtorja (CIAu): 0]
kategorija: 1A1 (Z, A', A1/2); uvrstitev: SSCI, SCI, Scopus, MBP; tip dela je verificiral OSICD
točke: 37, št. avtorjev: 3

3. LAZAR, Sebastjan, KLIMECKA-TATAR, Dorota, OBRECHT, Matevž. *Sustainability orientation and focus in logistics and supply chains*. *Sustainability*, ISSN 2071-1050, 2021, vol. 13, iss. 6, str. [1]-20, ilustr. <https://doi.org/10.3390/su13063280>, doi: 10.3390/su13063280. [COBISS.SI-ID 59003651], [JCR, SNIP, WoS do 8. 11. 2021: št. citatov (TC): 10, čistih citatov (CI): 9, čistih citatov na avtorja (CIAu): 3.00, Scopus do 7. 11. 2021: št. citatov (TC): 8, čistih citatov (CI): 7, čistih citatov na avtorja (CIAu): 2.33]
kategorija: 1A2 (Z, A', A1/2); uvrstitev: Scopus (d), SCI, SSCI, Scopus, MBP; tip dela je verificiral OSICD
točke: 33.11, št. avtorjev: 3