

**UČNI NAČRT PREDMETA / COURSE SYLLABUS**

<b>Ime predmeta:</b>	OSNOVE LOGISTIČNIH PROCESOV
<b>Course title:</b>	BASICS OF LOGISTICS PROCESSES

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

<b>Vrsta predmeta (obvezni ali izbirni) /</b> Course type (compulsory or elective)	OBVEZNI
	COMPULSORY

<b>Univerzitetna koda predmeta / University course code:</b>	VS
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<b>Predavanja</b> Lectures	<b>Seminar</b> Seminar	<b>Vaje</b> Tutorial	<b>Klinične vaje</b> Clinical training	<b>Druge oblike študija</b> Other forms of study	<b>Samost. delo</b> Individual work	<b>ECTS</b>
18 e-P 27 a-P		15 e-V 30 a-V			90	6

<b>Nosilec predmeta / Course coordinator:</b>	MATEVŽ OBRECHT
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<b>Jeziki /Languages:</b>	<b>Predavanja / Lectures:</b>	SLOVENSKI/SLOVENE
	<b>Vaje / Tutorial:</b>	SLOVENSKI/SLOVENE

<b>Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:</b>	<b>Prerequisites for enrolling in the course or for performing study obligations:</b>
Ni pogojev za sodelovanje pri tem predmetu.	There are no prerequisites for this course.

<b>Vsebina (kratek pregled učnega načrta):</b>	<b>Content (syllabus outline):</b>
<p>Temeljna področja obravnave predmeta so naslednja:</p> <ul style="list-style-type: none"> <li>• Uvod v procesno razmišljanje in prehod iz funkcijske v procesno organizacijo</li> <li>• Temeljni pojmi in členitev ter strukture (logističnih) procesov</li> <li>• Logistični procesi z vidika dodane vrednosti</li> <li>• Logistika kot proces in ključni logistični procesi</li> <li>• Osnove mapiranja in vizualizacije logističnih procesov</li> <li>• Merila in kriteriji za analizo logističnih procesov</li> <li>• Osnovna orodja za analiziranje in izboljšanje logističnih procesov.</li> </ul>	<p>Basic areas of the course are:</p> <ul style="list-style-type: none"> <li>• Introduction in process thinking and transition from functional to process organisation</li> <li>• Basic definitions and structure of (logistics) processes</li> <li>• Logistics processes and added value</li> <li>• Logistics as a process and key logistic processes</li> <li>• Basics of logistics process mapping and visualization</li> <li>• Criteria for analysis of logistics processes</li> <li>• Basic tools for analysis and optimisitm logistics processes</li> </ul>

<ul style="list-style-type: none"> <li>• Vloga in pomen izboljšav procesov pri delovanju oskrbovalnih verig v realnem gospodarskem okolju v smeri trajnostnega razvoja in digitalizacije kot prioritet industrije EU</li> </ul>	<ul style="list-style-type: none"> <li>• The role of logistics processes within supply chain in real business and transition towards new EU industrial priorities (digitalisation and sustainability)</li> </ul>
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### Temeljni literatura in viri / Reading materials:

<p>Osnovna literature / Essential sources:</p> <ul style="list-style-type: none"> <li>• E-gradivo predmeta. 2021.</li> <li>• Kramar, U. (2014) <i>Osnove logistike : skripta za predmet</i>. 1. izd. Celje: Fakulteta za logistiko.</li> <li>• Kramar, U. (2017). <i>Osnove logističnih procesov: skripta za predmet</i>. 1. izd. Celje: Fakulteta za logistiko Univerze v Mariboru.</li> </ul> <p>Izbrana poglavja iz/Some Chapters from:</p> <ul style="list-style-type: none"> <li>• Rushton, A., Croucher, P. and Baker, P. (2010). <i>The Handbook of Logistics and Distribution Management 4th ed</i>. London: Kogan Page Limited.</li> <li>• Slack, N., Brandon-Jones, A. and Johnston, R. (2013). <i>Operations Management</i>. Seventh edition. Edinburgh: Pearson Education Limited.</li> <li>• Kovačič, A. in Bosilj-Vukšič, V. (2005). <i>Management poslovnih procesov: Prenova in informatizacija poslovanja</i>. Ljubljana: GV.</li> </ul>
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### Cilji in kompetence:

<p>Cilji predmeta so:</p> <ul style="list-style-type: none"> <li>-pridobiti osnovna znanja o procesih in vlogi procesov pri razumevanju logistike.</li> <li>-študente seznaniti z osnovnimi principi analize logističnih procesov in osnovne pristope k njihovemu obvladovanju.</li> <li>-prikazati orodja in pristope za identifikacijo, analizo in vizualizacijo procesov v logistiki,</li> <li>-razumeti koncept procesnega pristopa in možnosti vpeljave v logistiki ter navezavo na oskrbovalne verige.</li> </ul> <p>Kompetence, ki jih študentje osvojijo:</p> <ul style="list-style-type: none"> <li>-pridobijo teoretično znanje s področja procesnega pristopa</li> <li>-pridobijo teoretično znanje s področja in ključnih in podpornih logističnih procesov</li> <li>-se usposobijo za identifikacijo in vizualizacijo ter mapiranje procesov</li> <li>-se naučiti osnovne analize procesov v logistiki</li> </ul>
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### Objectives and competences:

<p>The objective of this course is to provide students:</p> <ul style="list-style-type: none"> <li>-acquire basic knowledge about processes and the role of processes in understanding logistics.</li> <li>-get to know basic principles of logistic process analysis and basic approaches to their control.</li> <li>-acquire basic approaches / tools for identification, analysis and visualisation of logistic processes,</li> <li>-understand the concept of process thinking and approach as well as its integration in logistics and relation to supply chain.</li> </ul> <p>Key competences:</p> <ul style="list-style-type: none"> <li>-get theoretical knowledge of process thinking and approach</li> <li>-get theoretical knowledge of basic and supportive logistics processes</li> <li>-ability to identify and visualise processes and process mapping</li> <li>-ability for basic analysis of logistics processes</li> </ul>
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### Predvideni študijski rezultati:

<p>Študent je ob zaključku predmeta zmožen:</p> <ul style="list-style-type: none"> <li>• procesnega razmišljanja in razumevanja logistike kot procesa,</li> <li>• opisati in na poenostavljen način analizirati, logistične procese z ustreznimi orodji,</li> </ul>
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### Intended learning outcomes:

<p>Student is able to:</p> <p>Development of knowledge and understanding</p> <ul style="list-style-type: none"> <li>• process thinking and understanding of logistics as a process,</li> </ul>
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- vizualizirati proces, prepoznati vire, vhode in izhode in motnje procesa
- razumeti vlogo procesov v oskrbovalnih verig v sodobnem svetu

- describe and simple analysis of logistics processes with appropriate tools
- visualize processes, identify inputs, outputs and distractions
- understand the role of logistics processes in supply chains in modern world,

#### 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 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:

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-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 so pogoj za pristop k izpitu.		• Successful completion of e-lectures and e-tutorial is a prerequisite for entering the exam.
• Aktivno delo študentov (e-predavanja in e-vaje).	15%	• Active work of students (e-lectures and e-tutorial)
• Seminararska naloga (v sklopu samostojnega dela).	15%	• Seminar paper (within individual work).
• Končni pisni izpit.	70%	• Final written examination.

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

- OBRECHT, Matevž, SINGH, Rhythm, ZORMAN, Timitej. Conceptualizing a new circular economy feature - storing renewable electricity in batteries beyond EV end-of-life : the case of Slovenia. *The international journal of productivity and performance management : Elektronski vir*, ISSN 1758-6658. [Online ed.]. <https://doi.org/10.1108/IJPPM-01-2021-0029>, doi: [10.1108/IJPPM-01-2021-0029](https://doi.org/10.1108/IJPPM-01-2021-0029)
- 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](https://doi.org/10.3390/su13063280).
- STANISZEWSKA, Ewelina, KLIMECKA-TATAR, Dorota, OBRECHT, Matevž. Eco-design processes in the automotive industry. *Production Engineering Archives*, ISSN 2353-5156, 2020, [Vol.] 26, [no.] 4, str. 131-137, ilustr. <https://doi.org/10.30657/pea.2020.26.25>, doi: [10.30657/pea.2020.26.25](https://doi.org/10.30657/pea.2020.26.25).
- KUMPERŠČAK, Samo, MEDVED, Mihael, TERGLAV, Melanie, WRZALIK, Aleksandra, OBRECHT, Matevž. Traceability systems and technologies for better food supply chain management. *Quality production*

*improvement* - *QPI*, ISSN 2657-8603. [Spletna izd.], 2019, vol. 1, iss. 1, str. 567-574. <https://doi.org/10.2478/cqpi-2019-0076>, doi: [10.2478/cqpi-2019-0076](https://doi.org/10.2478/cqpi-2019-0076)

- OBRECHT, Matevž, KNEZ, Matjaž. Carbon and resource savings of different cargo container designs. *Journal of cleaner production*, ISSN 1879-1786. [Online ed.], 1 Jul. 2017, vol. 155, 151-156 str. <https://doi.org/10.1016/j.jclepro.2016.11.076>, doi: 10.1016/j.jclepro.2016.11.076. [COBISS.SI-ID 512811837], [JCR, SNIP, WoS].
- OBRECHT, Matevž. Logistika prihodnosti - nove tehnologije in novi poslovni modeli. *Embalaža, okolje, logistika : strokovna specializirana revija za embalažo, okolje in logistiko*, ISSN 1855-4849, sept. 2016, [Št.] 111/112, str. 70-71, ilustr. [http://www.zelenaslovenija.si/images/stories/eol/EOL\\_111-112/EOL\\_111-112.pdf](http://www.zelenaslovenija.si/images/stories/eol/EOL_111-112/EOL_111-112.pdf). [COBISS.SI-ID 512828477].