

## UČNI NAČRT PREDMETA / COURSE SYLLABUS

<b>Ime predmeta:</b>	DIGITALNA TRANSFORMACIJA V LOGISTIKI
<b>Course title:</b>	FUNDAMENTALS OF DIGITAL TRANSFORMATION IN LOGISTICS

Študijski program in stopnja Study programme and cycle	Študijska smer Study option	Letnik Year of study	Semester Semester
GOSPODARSKA IN TEHNIŠKA LOGISTIKA 1. stopnja		3.	5.
PROFESSIONAL HIGHER EDUCATION STUDY PROGRAMME ECONOMIC AND TECHNICAL LOGISTICS 1 <sup>st</sup> degree		3.	5.

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

OBVEZNI
COMPULSORY

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

VS
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Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Clinical training	Druge oblike študija Other forms of study	Samost. delo Individual work	ECTS
3 e-P 18 a-P		3 e-v 12 a-V			54	3

**Nosilec predmeta / Course  
coordinator:**

IGOR JAKOMIN
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**Jeziki /Languages:**

<b>Predavanja / Lectures:</b>	SLOVENSKI/SLOVENE
<b>Vaje / Tutorial:</b>	SLOVENSKI/SLOVENE

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

Ni pogojev.
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**Prerequisites for enrolling in the course or for  
performing study obligations:**

None.
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**Vsebina (kratek pregled učnega načrta):**

- Logistični procesi kot ključni del mednarodnega pretoka blaga.
- Pomen logistike za globalno trgovino.
- Specifike globalne trgovine.
- Kako ustvariti dodano vrednost v logistiki.
- Dokumentacija v mednarodni logistiki in trgovini.
- Posebnosti informacijske tehnologije, kot dejavnik učinkovitega pretoka informacij v logistiki.
- Pomen digitalizacije in tehnološkega razvoja za doseganje učinkovitosti logističnih procesov.
- Primerjalna analiza prevoznih modalitet, kot

**Content (syllabus outline):**

- Logistics processes as key factor in international movement of goods.
- Meaning of logistics for the global trade.
- Specific topics of the global trade.
- How to create an added value in logistics.
- Documentation in international logistics and trade.
- Specifics of information technology as a factor of efficient information flow in logistics.
- Meaning of digitalisation and technological development for reaching efficiency in logistical processes.
- Comparative analysis of different transportation

dejavnik učinkovitega toka blaga skozi pogled digitalne transformacije.

- Mejniki kakovosti logističnih operaterjev v digitalni dobi.

modalities as efficient factor of cargo flows through an overview of digital transformation.

- Quality milestones of logistical operators in digital era.

### Temeljni literatura in viri / Reading materials:

E-gradivo predmeta.

Internetni viri oz. viri člankov in prispevkov na svetovnem spletu.

Siebel, T. M.: Digital Transformation - Survive and Thrive in an Era of Mass Extinction, Rosetta Books, New York, 2019.

Mazzone, D.: Digital or Death: Digital Transformation – The Only Choice for Business to Survive, Smash, and Conquer, Smashbox Consulting, Mississauga, 2014.

Perkin, N., Abraham, P.: Building the Agile Business through Digital Transformation: How to Lead Digital Transformation in Your Workplace, Kogan Page, London, 2017.

Cetinkaya, B., Cuthbertson, R., Ewer, G., Klaas-Wissing, T., Piotrowicz, W., Tyssen, C.: Sustainable Supply Chain Management - Practical Ideas for Moving Towards Best Practice, Springer - Verlag, Berlin Heidelberg, 2011.

Jonsson, P. Logistics and supply chain management. McGraw-Hill. 2008.

Gilbert, R., Perl, A.: Transport revolutions: Moving people and freight without oil, Earthscan, London, 2008.

### Cilji in kompetence:

Kompetence:

- poznavanje posebnosti različnih mednarodnih logističnih okolij,
- razumevanje možnih oblik in načinov digitalnega poslovanja s tujino, obvladovanje modernih tehnik zunanjetrgovinskega poslovanja,
- sposobnost evidentiranja digitalnih orodij v mednarodnem poslovanju,
- poznavanje trendov v mednarodnem logističnem poslovanju,
- usposobljenost za prepoznavanje digitalnih možnosti za uspešen razvoj logističnih aktivnosti v bodočem poslovnem okolju.

### Objectives and competences:

Students:

- knowing special features of different international logistics environments,
- understanding of the possible forms and ways of doing digital business abroad, acquiring modern techniques for international trade operations,
- ability to record digital tools in international business operations,
- knowing the trends in international logistics business operations,
- ability to recognize the possibilities for successful development of logistics activities in future business environment.

### Predvideni študijski rezultati:

Znanje in razumevanje:

Študenti:

- pridobijo znanje o digitalizaciji logističnih procesov pri delovanju podjetja v globalnem okolju,
- spoznajo vlogo digitalizacije v logistiki prihodnosti,
- se seznanijo s kompleksnostjo logističnih sistemov prihodnosti.

Prenosljive/ključne spretnosti in drugi atributi:

- Študenti se usposobijo za interpretacijo in možnosti uporabe osnovnega teoretičnega znanja v praktičnih (poslovnih) primerih.

### Intended learning outcomes:

Knowledge and Understanding:

The students:

- are familiar about the role of digitalisation of logistics processes logistics in a company operating in the global environment,
- are familiar with the role of digitalisation in future logistics,
- learn about complexity of future logistics systems.

Transferable /Key Skills and other attributes:

- Students gain the ability to interpret and to apply basic 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).

<b>Načini ocenjevanja:</b>	Delež (v %) / Share (in %)	<b>Assessment methods:</b>
<ul style="list-style-type: none"> <li>▪ Opravljene obveznosti e-predavanj in e-vaj so pogoj za pristop k izpitu.</li> <li>▪ Pisni izpit.</li> <li>▪ Izdelava seminarskega dela.</li> <li>▪ Udeležba na ogledu dobrih praks.</li> </ul>	<p>50%</p> <p>40%</p> <p>10%</p>	<ul style="list-style-type: none"> <li>▪ Successful completion of e-lectures and e-tutorials is a prerequisite for entering the exam.</li> <li>▪ Written examination.</li> <li>▪ Preparation of a seminar work.</li> <li>▪ Participation on the excursion in best practice company.</li> </ul>

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

1. JAKOMIN, Igor et al. Inclusive deployment of blockchain for supply chains : part 1 : introduction. Geneva: World Economic Forum, cop. 2019. 25 str., ilustr. <https://www.weforum.org/whitepapers/inclusive-deployment-of-blockchain-for-supply-chains-part-1-introduction>. [COBISS.SI-ID 512984893].
2. JAKOMIN, Igor. How implement blockchain technology in shipping business - case study CargoX : IRU World Congress, roundtable session Reaping the benefits of new business models, 8 Nov. 2018, Muscat, Oman. [COBISS.SI-ID 512985149].
3. KONTELJ, Monika, JAKOMIN, Igor. Transport modelling of freight flows in accordance with investments : case study of Slovenian railways. Promet, ISSN 0353-5320. [Print ed.], 2014, vol. 26, no. 5, str. 429-436, ilustr. <http://www.fpz.unizg.hr/traffic/index.php/PROMTT/article/view/1456>, doi: 10.7307/ptt.v26i5.1456. [COBISS.SI-ID 2553443].
4. JAKOMIN, Igor, KOBILICA, Rok. Planning model of purchasing logistics in outsourcing. Transport problems : international scientific journal, ISSN 1896-0596. [Printed ed.], 2014, vol. 9, iss. 1, str. 69-81. [http://transportproblems.polsl.pl/pl/Archiwum/2014/zeszyt1/2014t9z1\\_08.pdf](http://transportproblems.polsl.pl/pl/Archiwum/2014/zeszyt1/2014t9z1_08.pdf). [COBISS.SI-ID 2497379].
5. JAKOMIN, Igor, KOBILICA, Rok. The meaning of supply chains and outsourcing for the purchasing logistics. V: SCHLIEPHAKE, Konrad (ur.), ROSI, Bojan (ur.), STERNAD, Marjan (ur.). Transport research in a changing world : case studies from Slovenia and Germany = Verkehrsanalysen im wandelnden Raumbezug : Fallstudien aus Slowenien und Deutschland, (Würzburger geographische Manuskripte, ISSN 0931-8623, 82). Würzburg: Geographisches Institut der Universität Würzburg. 2014, str. 23-45, ilustr. [COBISS.SI-ID 2556259].