

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Ime predmeta: DIGITALNA TRANFORMACIJA V OSKRBOVALNIH VERIGAH
Course title: DIGITAL TRANSFORMATION OF SUPPLY CHAINS

Študijski program in stopnja Study programme and cycle	Študijska smer Study option	Letnik Year of study	Semester Semester
LOGISTIKA SISTEMOV 1. stopnja		3.	5.
SYSTEM LOGISTICS 1 st degree		3.	5.

**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
3 e-P 21 a-P		3 e-V 12 a-V			51	3

**Nosilec predmeta / Course
coordinator:**

IGOR JAKOMIN

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):

- Kompleksnost oskrbovalnih verig in njihov pomen za globalno trgovino.
- Specifike globalne trgovine (INCOTERMS klavzule, carinske posebnosti, pomen zavarovanj v mednarodni trgovini in prevozu, posebnosti medkulturnega trgovanja).
- Ustvarjanje dodane vrednosti skozi oskrbovalne verige.
- Dokumentacija in posebnosti informacijske tehnologije, kot dejavnik učinkovitega pretoka informacij v oskrbovalnih verigah.
- Pomen digitalizacije in tehnološkega razvoja za doseganje učinkovitosti oskrbovalnih verig.
- Primerjalna analiza posameznih faz oskrbovalne verige, kot dejavnik učinkovitega toka blaga skozi pogled digitalne transformacije.

Content (syllabus outline):

- Complexity of supply chains and their meaning for the global trade.
- Specific topics of the global trade (INCOTERMS, custom clearance specialities, meaning of insurance in international trade and transportation, specifics of multicultural trade).
- Creation of added value through supply chains.
- Documentation and specifics of information technology as a factor of efficient information flow in supply chains.
- Meaning of digitalisation and technological development for reaching efficiency in supply chains.
- Comparative analysis of different phases of supply chain as efficient factor of cargo flows through an overview of digital transformation.

<ul style="list-style-type: none"> ▪ Mejniki kakovosti operaterjev oskrbovalne verige v digitalni dobi. 	<ul style="list-style-type: none"> • Quality milestones of supply chain operators in digital era.
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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 okolij delovanja globalnih oskrbovalnih verig,
 - poglobitev razumevanja možnih oblik in načinov globalnega digitalnega poslovanja, obvladovanje modernih digitalnih tehnik zunanjetrgovinskega poslovanja,
 - sposobnost učinkovite uporabe digitalnih orodij v mednarodnem poslovanju,
 - poznavanje zadnjih trendov v globalnih oskrbovalnih verigah,
 - usposobljenost za oblikovanje digitalnih možnosti za uspešen razvoj aktivnosti v poslovnem okolju bodočnosti.

Objectives and competences:

- Competences:
- knowing special environments of global supply chain,
 - deep understanding of the possible forms and ways of doing global digital business, acquiring modern digital techniques for international trade operations,
 - ability to use digital tools in international business operations,
 - knowing the latest trends in global supply chains,
 - ability to create digital possibilities for successful development of activities in business environment of the future.

Predvideni študijski rezultati:

- Znanje in razumevanje:
 Študenti:
- osvojijo znanje o digitalizaciji oskrbovalnih verig v globalnem okolju,
 - osvojijo znanje o vlogi digitalizacije v oskrbovalnih verigah prihodnosti,
 - spoznajo kompleksnost oskrbovalnih verig.
- Prenesljive/ključne spretnosti in drugi atributi:
- Študenti se usposobijo za interpretacijo in uporabo teoretičnega znanja v praktičnih (poslovnih) primerih.

Intended learning outcomes:

- Knowledge and Understanding:
 The students:
- are familiar with the role of digitalisation of supply chains in a global environment,
 - are familiar with the role of digitalisation in supply chains of the future,
 - learn about complexity of supply chains.
- Transferable/Key Skills and other attributes:
- Students gain the ability to interpret and to apply 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).

Seminar: pri vajah študent utrdi teoretično znanje in spozna aplikativne možnosti. Praktične strokovne ekskurzije v podjetja dobrih praks v Republiki Sloveniji. Del vaj se izvaja na klasični način v predavalnici, del pa v obliki e-predavanj 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. Practical tutorials are in form of excursion in a best-practice companies in Slovenia. 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"> ▪ Pisni izpit. ▪ Izdelava seminarskega dela. ▪ Opravljene obveznosti v okviru ogleda dobrih praks. 	<p>50%</p> <p>40%</p> <p>10%</p>	<ul style="list-style-type: none"> ▪ Written examination. ▪ Preparation of a seminar work. ▪ Successful completion of tasks in the framework of observation of good practices.

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. [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].