

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Ime predmeta:	POSLOVNI INFORMACIJSKI SISTEMI V LOGISTIKI
Course title:	BUSINESS INFORMATION SYSTEMS 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 st degree		3.	5.

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

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
18 e-P 24 a-P		21 e-V 27 a-V			90	6

Nosilec predmeta / Course coordinator:	ROMAN GUMZEJ
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Jeziki /Languages:	Predavanja / Lectures:	SLOVENSKI/SLOVENE
	Vaje / Tutorial:	SLOVENSKI/SLOVENE

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	Prerequisites for enrolling in the course or for performing study obligations:
Ni posebnih pogojev.	None in particular.

Vsebina (kratek pregled učnega načrta):	Content (syllabus outline):
<p>1. Poslovni informacijski sistemi v logistiki: integracije logističnih informacijskih sistemov (LIS), intra- in interorganizacijski LIS v podjetjih.</p> <p>2. E-poslovanje in E-uprava: elektronska izmenjava podatkov (EDI), informacijska varnost pri EDI.</p> <p>3. Celoviti upravljavski informacijski sistemi (ERP): klasifikacija ERP sistemov (namenski, odprtokodni (Odo), zaprtokodni (SAP ERP)), strategije implementacije ERP sistemov, osnovne poslovne aplikacije ERP (človeški viri (HR), finance (FI), kontroling (CO), materialno poslovanje (MM), prodaja in distribucija (SD) in planiranje proizvodnje (PP)).</p>	<p>1. Business information systems in logistics: Logistics Information Systems (LIS) integrations, intra- and interorganizational LIS in enterprises.</p> <p>2. E-business & E-government: Electronic Data Interchange (EDI), information security with EDI.</p> <p>3. Enterprise resource planning systems (ERP): classification (proprietary, open source (Odo), and closed source (SAP ERP)), ERP implementation strategies, basic ERP business applications (human resources (HR), finance (FI), controlling (CO), materials management (MM), sales and distribution (SD), and production planning (PP)).</p>

Temeljni literatura in viri / Reading materials:

Gumzej, R. (2013). Računalništvo in informatika v logistiki, Celje: Fakulteta za logistiko. ISBN 978-961-6562-87-4. ISBN 978-961-6562-86-7.

Gumzej, R. (2013). Logistika in e-poslovanje, Celje: Fakulteta za logistiko. ISBN 978-961-6562-88-1. ISBN 978-961-6562-89-8.

Anderson, G. W. (2003). SAP Planning Best Practices in Implementation. Sams.

Gajjar, M. (2020). Odoo 13 Best practices. Vir: <https://www.odoobooks.com/en/13.0/>

Jacobson, S., Shepherd, J., D'Aquila, M., & Carter, K. (2007). The ERP Market Sizing Report, 2006–2011. Technical report, AMR Research.

Rainer, R. K. & Turban, E. (2008). Introduction to Information Systems: Supporting and Transforming Business. John Wiley and Sons, 2nd edition.

SAP UA. (2017), Introduction to ERP using Global Bike. [E-vir]

Cilji in kompetence:

Cilji predmeta so:

- razumevanje vloge informacijskega sistema v poslovnem sistemu,
- razumevanje in uporaba konceptov e-poslovanja,
- razumevanje in uporaba osnovnih poslovnih aplikacij ERP sistema zavedajoč se prednosti integracij poslovnih funkcij za podporo poslovnih procesov.

Kompetence, ki jih študenti osvojijo:

- razumevanje strukture logističnih informacijskih sistemov,
- razumevanje in uporaba infrastruktur e-poslovanja in e-uprave,
- razumevanje temeljnih konceptov upravljalnih informacijskih sistemov s poudarkom na integriranih poslovnih funkcijah za logistično podporo poslovnih procesov,
- uporaba ERP sistemov z namenom upravljanja organizacije, kadrov, financ, materialov, proizvodnje, prodaje in distribucije podjetja.

Objectives and competences:

Course objectives are:

- understanding the role of the information system in an enterprise,
- understanding and application of the concepts of e-business,
- understanding and use of the basic business applications of an ERP system gaining awareness of the benefits of integrated business functions supporting business processes.

Competences acquired by students:

- understanding of the structure of logistics information systems,
- understanding and use of e-business and e-government infrastructures,
- understanding of the basic concepts of management information systems with emphasis on integrated business functions for logistic support of business processes,
- use of ERP systems to manage the organization, personnel, finance, materials, production, as well as sales and distribution of a company.

Predvideni študijski rezultati:

Študent bo po zaključku predmeta zmožen:

- izvedbe osnovnih poslovnih procesov podjetja v ERP sistemu,
- uporabe mehanizmov e-poslovanja,
- pristopiti k projektom implementacije ERP sistemov v podjetjih.

Intended learning outcomes:

Upon completion of the course a student will be capable of:

- executing basic business processes of a company through the ERP system,
- applying the mechanisms of e-business,
- joining ERP systems' implementation projects in companies.

Metode poučevanja in učenja:**Learning and teaching methods:**

<p>Predavanja: pri predavanjih študenti spoznajo teoretične osnove predmeta. Predavanja potekajo v živo v predavalnici pa tudi v obliki e-predavanj na videokonferenčni način ter preko namenskih e-učilnic v e-učnem okolju.</p> <p>Vaje: pri vajah študenti utrdijo teoretično znanje in se ga naučijo uporabiti. Vaje potekajo v živo v predavalnici pa tudi v obliki e-vaj na videokonferenčni način ter preko namenskih e-učilnic v e-učnem okolju.</p>	<p>Lectures: during lectures students are familiarised with the theoretical fundamentals of the course. Lectures take place live in the classroom as well as in the form of e-lectures via videoconferencing and dedicated e-classrooms in the e-learning environment.</p> <p>Tutorials: during tutorials students consolidate their theoretical knowledge and learn to apply it. The tutorials are held live in the classroom as well as in the form of e-tutorials via videoconferencing and dedicated e-classrooms in the e-learning environment.</p>
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Načini ocenjevanja:	Delež (v %) / Share (in %)	Assessment methods:
<p>Opravljenosti obveznosti e-predavanj in e-vaj so pogoj za pristop k izpitu:</p> <ul style="list-style-type: none"> • naloge • pisni izpit 	<p>50%</p> <p>50%</p>	<p>Successful completion of e-lectures and e-tutorials is a prerequisite for entering the exam:</p> <ul style="list-style-type: none"> • coursework • written exam

Reference nosilca / Course coordinator's references:

<ol style="list-style-type: none"> 1. KMETEC, Anja, MLAKER KAČ, Sonja, GUMZEJ, Roman. How to estimate strategic partnerships on the basis of quality criteria in logistics systems. International journal of applied logistics. [Online]. 2021, vol. 11, iss. 1, str. 52-65, tabele. ISSN 1947-9581. https://www.igi-global.com/article/how-to-estimate-strategic-partnerships-on-the-basis-of-quality-criteria-in-logistics-systems/269708, DOI: 10.4018/IJAL.2021010104. 2. POLETAN JUGOVIĆ, Tanja, ČIŠIĆ, Dragan, GUMZEJ, Roman. Supply chain service quality improvement by e-marketplace automation. Promet. [Print ed.]. 2019, vol. 31, no. 2, str. 185-194, ilustr. ISSN 0353-5320. https://doi.org/10.7307/ptt.v31i2.3042, DOI: 10.7307/ptt.v31i2.3042. 3. MILIĆ, Bojan, ROSI, Bojan, GUMZEJ, Roman. An approach to e-marketplace automation. Tehnički vjesnik : znanstveno-stručni časopis tehničkih fakulteta Sveučilišta u Osijeku. May/Jun. 2019, god.=vol. 26, br.=no. 3, str. 639-649, ilustr. ISSN 1330-3651. https://doi.org/10.17559/TV-20171201150248, DOI: 10.17559/TV-20171201150248. 4. GUMZEJ, Roman, ČIŠIĆ, Dragan. Decentralized agent-based electronic marketplace supply chain ecosystem : Elektronski vir. Pomorstvo. 2018, vol. 32, no. 1, str. 21-27. ISSN 1846-8438. https://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=296855. 5. RASHAD, Waleed, GUMZEJ, Roman. The information technology in supply chain integration : case study of Reda Chemicals with Elemica. International journal of supply chain management. [Spletna izd.]. Mar. 2014, vol. 3, no. 1, str. 62-69. ISSN 2050-7399. http://ojs.excelingtech.co.uk/index.php/IJSCM/article/view/876/pdf.
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