

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

| Predavanja Lectures | Seminar Seminar | Vaje Tutorial | Klinične vaje Clinical training | Druge oblike študija Other forms of study | Samost. delo Individual work | ECTS |
|------------------------|--------------------|------------------|---------------------------------------|--|------------------------------------|------|
| 24 e-P 21 a-P | | 18 e-V 27 a-V | | | 90 | 6 |

**Nosilec predmeta / Course
coordinator:**

ROMAN GUMZEJ

Jeziki /Languages:

Predavanja / Lectures: SLOVENSKI/SLOVENE

Vaje / Tutorial: SLOVENSKI/SLOVENE

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

Ni posebnih pogojev.

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

None in particular.

Vsebina (kratek pregled učnega načrta):

E-poslovanje in E-uprava:

- EDI,
- Informacijska varnost.

"Poslovni proces : Informacijski sistem":

- organizacijski vidik podjetja,
- nivoji odločanja v podjetju,
- komponente poslovnega informacijskega sistema,
- informacijski sistemi v proizvodnji (PRIS),
- informacijski sistemi v prodaji in marketingu (PMIS),

Content (syllabus outline):

E-business and E-government:

- EDI,
- Information security.

"Business process : Information system":

- company business model,
- levels of decision making in a company,
- business information system components,
- production information systems (PRIS),
- sales and marketing information systems (PMIS),
- finance-accounting information systems (FRIS),
- human resources information systems (KIS),
- logistic information systems integration (LIS).

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| <ul style="list-style-type: none"> • finančno-računovodski informacijski sistemi (FRIS), • kadrovski informacijski sistemi (KIS), • integracija v logističnem informacijskem sistemu (LIS). <p>Celoviti upravljavski informacijski sistemi (ERP)</p> <ul style="list-style-type: none"> • uvajanje, • primeri: Namenski, odprto kodni (Open ERP) in zaprto kodni (SAP ERP), • moduli: človeški viri (HR), finance (FI), kontroling (CO), materialno poslovanje (MM), prodaja in distribucija (SD), planiranje proizvodnje (PP). |
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| <p>Enterprise Resource Planning systems (ERP)</p> <ul style="list-style-type: none"> • implementation, • examples: Proprietary, open source (Open ERP) in closed source (SAP ERP), • modules: human resources (HR), finance (FI), controlling (CO), materials management (MM), sales and distribution (SD), production planning (PP). |
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Temeljni literatura in viri / Reading materials:

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| <p>E-gradivo predmeta.</p> <p>Gumzej, R. (2013). Računalništvo in informatika v logistiki, Celje: Fakulteta za logistiko. ISBN 978-961-6562-87-4. ISBN 978-961-6562-86-7.</p> <p>Gumzej, R. (2013). Logistika in e-poslovanje, Celje: Fakulteta za logistiko. ISBN 978-961-6562-88-1. ISBN 978-961-6562-89-8.</p> <p>Dodatna literatura</p> <p>Anderegg, T. (2000). ERP: A-Z implementer’s guide for success. Resource Publishing Eau Claire, USA.</p> <p>Anderson, G. W. (2003). SAP Planning Best Practices in Implementation. Sams.</p> <p>Grant, D., Lambert, D., Stock, J., & Ellram, L. (2006). Fundamentals of Logistics Management. McGraw-Hill, Berkshire, UK, european edition edition.</p> <p>Jacobson, S., Shepherd, J., D’Aquila, M., & Carter, K. (2007). The ERP Market Sizing Report, 2006–2011. Technical report, AMR Research.</p> <p>Missbach, M. & Hoffmann, U. M. (2001). SAP Hardware Solutions: Servers, Storage, and Networks for mySAP.com. Prentice Hall.</p> <p>Rainer, R. K. & Turban, E. (2008). Introduction to Information Systems: Supporting and Transforming Business. John Wiley and Sons, 2nd edition.</p> <p>Sternad, S. & Bobek, S. (2008). Uvajanje rešitev ERP v slovenskih podjetjih: kritični dejavniki in njihova medsebojna odvisnost. Organizacija, 41(1), 28–36.</p> |
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Cilji in kompetence:

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| <p>Študenti bodo:</p> <ul style="list-style-type: none"> • razumeli in uporabili koncepte e-poslovanja in e-uprave, • osvojili, razumeli in uporabili temeljne koncepte upravljavskih informacijskih sistemov s poudarkom na integriranih funkcijah za podporo logističnih procesov, • se seznanili z ERP sistemi in jih uporabili v praktičnih primerih. |
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Objectives and competences:

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| <p>Students will:</p> <ul style="list-style-type: none"> • understand and apply e-business and e-government, • master, understand and apply the concepts of management information systems with emphasis on integrated functions for logistic processes support, • get acquainted with ERP systems and apply in practise. |
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Predvideni študijski rezultati:

Znanje in razumevanje:

- študent razume in zna uporabiti koncepte e-poslovanja,
- študent zna uporabiti osnovne komponente ERP sistema in se zaveda prednosti integriranih funkcij za podporo logističnih procesov.

Prenesljive/ključne spretnosti in drugi atributi:

- sposoben je sodelovanja pri uvajanju in učinkoviti rabi ERP sistemov.

Intended learning outcomes:

Knowledge and Understanding:

- the students understand and apply the concepts of e-business,
- students can use the basic components of an ERP system and gain awareness of the benefits of integrated functions supporting logistics processes.

Transferable/Key Skills and other attributes:

- the ability to cooperate in the introduction and efficient use of ERP systems.

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).

| Načini ocenjevanja: | Delež (v %) / Share (in %) | Assessment methods: |
|---|-------------------------------|---|
| Opravljene obveznosti e-predavanj in e-vaj so pogoj za pristop k izpitu. <ul style="list-style-type: none"> • Seminarsko delo, • ustni izpit. | 50% 50% | Successful completion of e-lectures and e-tutorials is a prerequisite for entering the exam. <ul style="list-style-type: none"> • Seminar work, • oral examination. |

Reference nosilca / Course coordinator's references:

1. GUMZEJ, Roman, ROSI, Bojan. Automated authentication and authorisation of consignors and their consignments within secure supply chains : Elektronski vir. Tehnički vjesnik, ISSN 1848-6339, 2018, vol. 25, iss. 1, str. 203-209. https://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=285638. [COBISS.SI-ID 512898365], [JCR, SNIP, WoS do 23. 3. 2018: št. citatov (TC): 0, čistih citatov (CI): 0, čistih citatov na avtorja (CIAu): 0, Scopus do 23. 3. 2018: št. citatov (TC): 0, čistih citatov (CI): 0, čistih citatov na avtorja (CIAu): 0].
2. GUMZEJ, Roman, ROSI, Bojan. An agent-based simulation of a QoS-oriented supply chain. Promet, ISSN 0353-5320. [Print ed.], 2017, vol. 29, no. 6, str. 593-601, ilustr. [COBISS.SI-ID 512889917], [JCR, SNIP, WoS do 21. 1. 2018: št. citatov (TC): 0, čistih citatov (CI): 0, čistih citatov na avtorja (CIAu): 0, Scopus do 22. 3. 2018: št. citatov (TC): 0, čistih citatov (CI): 0, čistih citatov na avtorja (CIAu): 0].

3. GUMZEJ, Roman. Engineering safe and secure cyber-physical systems : the specification PEARL approach, (Studies in computational intelligence, vol. 632). [S. l.]: Springer, cop. 2016. XIII, 128 str., ilustr. ISBN 978-3-319-28903-8.
4. GUMZEJ, Roman. Engineering safe and secure cyber-physical systems : the specification PEARL approach, (Studies in computational intelligence, vol. 632). [S. l.]: Springer, cop. 2016. XIII, 128 str., ilustr. ISBN 978-3-319-28903-8.
5. GUMZEJ, Roman, HALANG, Wolfgang A.. Avtomatizirana avtentikacija in avtorizacija transportnih enot znanih dostavljalcev : patent številka SI25020 (A), 2016-12-30. Ljubljana: Urad RS za intelektualno lastnino, 2016. 6 str., 2 str. pril., ilustr.