

UČNI NAČRT PREDMETA/COURSE SYLLABUS

Predmet:	INFORMATIKA IN INFORMACIJSKA VARNOST V ORGANIZACIJAH
Course title:	INFORMATICS AND INFORMATION SECURITY IN ORGANIZATIONS

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
LOGISTIKA SISTEMOV 1.stopnja		1.	1.
SYSTEM LOGISTICS 1 st degree		1.	1.

Vrsta predmeta / Course type: OBVEZNI

Univerzitetna koda predmeta / University course code: UN

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Laboratory work	Druge oblike študija Field work	Samost. delo Individ. work	ECTS
21 a-P 10 e-P		9 a-V 5 e-V			75	4

Nosilec predmeta / Lecturer: BORUT JEREB

Jeziki / Predavanja / Lectures: SLOVENSKI / SLOVENE
 Languages: Vaje / Tutorial: SLOVENSKI / SLOVENE

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti: Ni pogojev. Prerequisites: No limitations.

Vsebina:

1. Informatika in informacijska varnost v organizacijah
 - a) Definicije nekaterih najpogosteje uporabljenih izrazov s področja informatike
 - b) Uporaba IT kot orodja za doseganje ciljev organizacije
2. Upravljanje tveganj
 - a) Pregled področja
 - b) Model objektivnih in subjektivnih tveganj
 - c) ISO 31000 in 31010
 - d) Katalog tveganj v logistiki
3. Osnove zagotavljanja razpoložljivosti in celovitosti informacij
4. ISO/IEC 18043:2006 in zagotavljanje razpoložljivosti, celovitosti in zaupnosti informacij v organizacijah in ISO/IEC 27035:2011 in upravljanje informacijske varnosti v primeru informacijskih incidentov v organizacijah
5. IT investicije
 - a) Upravljanje IT investicij s pomočjo Val IT
 - b) Upravljanje investicij v logistiki na osnovi Val Log

Content (Syllabus outline):

1. Informatics and information security in organizations
 - a) Definitions of some most used expressions from the field of informatics
 - b) Usage of IT as a tool for achieving goals of organization
2. Risk management
 - a) Overview
 - b) Model of objective and subjective risks
 - c) ISO 31000 in 31010
 - d) Catalogue of risks in logistics
3. Basics of ensuring the availability and integrity of information
4. ISO/IEC 18043:2006 and ensuring the confidentiality, integrity and availability information in organizations and ISO/IEC 27035:2011 and information security incident management for organizations
5. IT investments
 - a) Managing of IT investments with the help of Val IT
 - b) Managing of investments in

	logistics based on Val Log
<p>6. IT standardi v organizacijah</p> <ol style="list-style-type: none"> Programska oprema in sistemski inženiring (JTC 1/SC 7 Software and system engineering) Standard ISO/IEC 12207:1995 z amandmaji Standard ISO/IEC 90003:2004 Standard ISO/IEC 25000:2005, ISO/IEC 25051:2006 in ISO/IEC 25062/2006 <p>7. Dokumentni sistemi v organizacijah</p> <ol style="list-style-type: none"> Življenjski cikel dokumentov Zakonodaja in notranja pravila Dokumenti in gradivo Varna elektronska hramba gradiva Poslovni modeli zajema, pretvorbe in elektronskega arhiviranja dokumentov Projekt izdelave notranjih pravil <p>8. Okvirji za vodenje IT</p> <ol style="list-style-type: none"> Pregled področja Cobit 4.1 Cobit 5.0 	<p>6. IT standards in organizations</p> <ol style="list-style-type: none"> Software and system engineering (JTC 1/SC 7 Software and system engineering) Standard ISO/IEC 12207:1995 with amendments ISO/IEC 90003:2004 standard ISO/IEC 25000:2005 standard, ISO/IEC 25051:2006 in ISO/IEC 25062/2006 <p>7. Document management systems in organizations</p> <ol style="list-style-type: none"> Life cycle of documents Legislation and internal rules Documents and materials Safe e-archive of documents Business models of capturing, conversion and e-archiving of documents Development of internal rules project <p>8. Frameworks for IT management</p> <ol style="list-style-type: none"> Overview Cobit 4.1 Cobit 5.0

Temeljni literatura in viri / Readings:

- JEREB, Borut. Informatika in računalništvo : gradivo za vaje : predmet Informatika v logistiki. 2. dopolnjena izd. Celje: ABakus in Jereb, 2007. 131 str., 30 cm. ISBN 978-961-92263-0-8. [COBISS.SI-ID 236166912]
- JEREB, Borut, KUKOVIČ, Darja, ŠTRUBELJ, Gregor. *Uporaba računalniških orodij za podporo pisarniškemu poslovanju : izbrana poglavja*. Celje: Fakulteta za logistiko, 2015. 156 str., ilustr. ISBN 978-961-6962-09-4.
- JEREB, Borut. *Upravljanje tveganj*. Celje: Univerza v Mariboru, Fakulteta za logistiko, 2014. 103 str., ilustr. ISBN 978-961-6962-04-9. <http://labinf.fl.uni-mb.si/upravljanje-tveganj/>.
- DRAŠKOVIČ, Veselin, JOVOVIČ, Radislav, DRAŠKOVIČ, Mimo, JEREB, Borut. Knowledge - keystone of the modern economy. 1st ed. Celje [etc.]: SPH - Scientific Publishing Hub, 2013. XVI, 272 str., ilustr. ISBN 978-961-6948-00-5. ISBN 978-961-6948-01-2. <http://sphub.org/wp-content/uploads/2013/11/Complete-PDF-version-KNOWLEDGE-KEystone-OF-THE-MODERN-ECONOMY1.pdf>.
- JEREB, Borut. Risk management in supply chains. V: DRAŠKOVIČ, Veselin. Management and logistics : selected topics. 1st electronic ed. Czestochowa [etc.]: SPH - Scientific Publishing Hub, 2016, str. 7-33, ilustr. <http://sphub.org/books/management-and-logistics>.
- JEREB, Borut, CVAHTE, Tina, ROSI, Bojan. Governance of investments in logistics. V: KRAMBERGER, Tomaž (ur.), POTOČAN, Vojko (ur.), IPAVEC, Vesna Mia (ur.). Sustainable logistics and strategic transportation planning, (Advances in logistics, operations, and management science book series (Print), ISSN 2327-350X). Hershey: IGI Global, cop. 2016, str. 236-247, ilustr. <http://www.igi-global.com/book/sustainable-logistics-strategic-transportation-planning/141939>, doi: 10.4018/978-1-5225-0001-8.ch011.
- JEREB, Borut, CVAHTE, Tina, JEREB, Borut (urednik). Risk catalog. Ver 12.05. Czestochowa, Poland: Oficyna Wydawnicza Stowarzyszenia Menedżerów Jakości i Produkcji; Celje: University of Maribor, Faculty of Logistics, Laboratory of Informatics, 2011-. Podatkovna zbirka. ISBN 978-83-63978-04-4. <http://labinf.fl.uni-mb.si/risk-catalog/>.
- Aktualni spletni viri/Actual web sources.

Cilji in kompetence:

Vsebina predmeta je usmerjena v takojšno uporabo teoretično in praktično pridobljenih znanj informatike in informacijske varnosti v organizacijah. Učna snov je posebno skrbno izbrana in pripravljena za srednji upravljavski sloj v podjetjih (organizacijah), ki mora znati

Objectives and competences:

Content of the subject is organized in a way, that theoretically and practically gained knowledge from the field of informatics and information security in organizations can be used immediately. Study materials are chosen carefully and it's prepared for middle and higher

sprejemati odločitve kot posamezniki in kot člani tima.

management in organizations, that has to know how to make choices based on the gained knowledge about e-business as individuals and also as team members.

Predvideni študijski rezultati:

Timsko in samostojno opravljanje del in nalog, v vlogi srednjega upravljaljskega sloja. Sprejemanje odločitev pri odnosu do podrejenih in nadrejenih v primerih, ko so dela in naloge ter odločitve povezane z informatiko in informacijsko varnostjo v organizacijah.

Intended learning outcomes:

Team and individual work in the role of middle management layer. Decision making in relation to subordinates and seniors in cases, when work and decisions are connected with informatics and information security in organizations.

Metode poučevanja in učenja:

Teoretična predavanja, praktične vaje, samostojno delo, seminarske naloge, vodene debate, treningi.

Learning and teaching methods:

Theoretical lectures, practical exercises, individual work, seminar papers, moderated debates, trainings.

Načini ocenjevanja:

Delež (v %) /
Weight (in %)

Assessment:

- Seminarska naloga.
- Pisni izpit.

25%
75%

- Seminar paper.
- Final exam.

Reference nosilca / Lecturer's references:

- JEREB, Borut, IVANUŠA, Teodora, ROSI, Bojan. Systemic thinking and requisite holism in mastering logistics risks : the model for identifying risks in organisations and supply chain. *Amfiteatru econ.*, Feb. 2013, vol. 15, no. 33, str. 56-73.
- JEREB, Borut, PIPAN, Ljubo. Measuring parallelism in algorithms. *Microprocess. microprogram.*, 1992, vol. 34, str. 49-52. [COBISS.SI-ID 18904103]
- JEREB, Borut, SKOK, Dejan, ŠAFRAN, Mirica, ŠKORNIK, Mateja. Programi za logistike : verzija 10.12. 1. izd. Celje: Fakulteta za logistiko, Laboratorij za informatiko, 2010. 466 str., ilustr. ISBN 978-961-6562-44-7. <http://labinf.fl.uni-mb.si/p4L/>.
- JEREB, Borut, FRIC, Urška, TOPOLŠEK, Darja. Simulation of a road junction model. V: *Transport problems 2012 : IV international scientific conference proceedings*. Katowice: Silesian University of Technology, 2012, str. [248]-257, ilustr.
- SIRŠE, Špela, JEREB, Borut. Označevanje spletnih dokumentov s ključnimi besedami na osnovi njihove vsebine. V: 19. konferenca Dnevi slovenske informatike, Portorož, 16.-18. april 2012. *Ustvarimo nove rešitve! : zbornik prispevkov*. 1. izd. Ljubljana: Slovensko društvo Informatika, 2012, str. 1-10, graf. prikazi.
- JEREB, Borut, ŠKORNIK, Mateja. Upravljanje informacijskih tveganj po ISO/IEC 27005:2008. V: TURK, Ivan (ur.). 17. mednarodna konferenca o revidiranju in kontroli informacijskih sistemov, Rogaška Slatina, 22.-25. september 2009. *Zbornik referatov*. Ljubljana: Slovenski inštitut za revizijo, 2009, str. 9-28.
- JEREB, Borut. Upravljanje IT investicij s pomočjo Val IT. V: *Dnevi slovenske informatike 2008 - DSI*, Portorož, Slovenija, 09.-11. april. *Interoperabilnost kot izziv informatiki*, Zbornik prispevkov. Ljubljana: Slovensko društvo Informatika, 2008, 9 str.
- LEKIĆ, Ksenija, KONEC JURČIČ, Nuša, ŠAFRAN, Petra, JEREB, Borut. Web counselling as everyday support for teens. V: KRAMER, Jeannette (ur.), MAN, John-Gavin (ur.), WAMMES, Anke (ur.). *First International e-Mental Health Summit 2009, Amsterdam. Abstract book*. Amsterdam: Trimboos Institute: University of Amsterdam: ISRII: VU University Amsterdam, cop. 2009, str. 182.