

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Vpliv informacijske tehnologije pri e-poslovanju
Course title:	The Influence of Information Technology on eBusiness

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Informatika v sodobni družbi, visokošolski strokovni študijski program prve stopnje	-	Drugi ali tretji	Četrty ali šesti
Informatics in Contemporary Society, first cycle Professional Study Programme	-	Second or Third	Fourth or sixth

Vrsta predmeta / Course type Izbirni / Elective

Univerzitetna koda predmeta / University course code: 1-ISD-VS-IP-VITEP-2019-05-13

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
30	-	45	-	-	105	6

Nosilec predmeta / Lecturer: doc. dr. Katarina Rojko

Jeziki / Languages:	Predavanja / Lectures:	Slovenski, angleški / Slovene, English
	Vaje / Tutorial:	Slovenski, angleški / Slovene, English

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

Študent/študentka mora pred pristopom k izpitu tekoče izpolnjevati obveznosti z vaj ter pripraviti in uspešno zagovarjati svoj projekt.

Prerequisites:

Prior to taking an exam, student must fulfil all current academic obligations relating to tutorials, as well as prepare and successfully defend a project.

Vsebina:

- e-poslovanje in uporabnik («družbeni inženiring»)
- protokoli v e-poslovanju
- nadzor dostopa v sistemih e-poslovanja
- uporaba kriptografije
- porazdeljeni sistemi (sočasnost, odpornost, zanesljivost)
- večnivojska varnost (multilevel security) v sistemih e-poslovanja

Content (Syllabus outline):

- e-commerce and the user ("social engineering")
- protocols in e-commerce
- access control systems in e-commerce
- use of cryptography
- distributed Systems (concurrency , resilience , reliability)
- multilevel security (multilevel security) systems in e-commerce

- večstranska varnost (multilateral security) v sistemih e-poslovanja
- bančništvo in plačilni sistemi
- varnost v telekomunikacijskih sistemih
- napadi in obramba v računalniških omrežjih
- upravljanje in razvoj varnih aplikacij in sistemov e-poslovanja
- preverjanje sistemov e-poslovanja
- obravnava primerov iz prakse

- multilateral Security (multilateral security) systems in e-commerce
- banking and payment systems
- security in telecommunication systems
- attacks and defenses on computer networks
- management and development of secure applications and e-business systems
- verification of e-commerce case studies from practice

Temeljni literatura in viri / Readings:

- Laudon, K.C., Traver, C.G.: E-Commerce : business, technology, society, 9th Edition, Pearson cop., 2013.
- Brown, C. V., DeHayes D.W., Slater J., Wainright E. M., Perkins W.C.: Managing Information Technology, 7th Edition, Pearson, cop. 2014.
- Papazoglou, M., Ribbers, P.: E-business : organizational and technical foundations, John Wiley & Sons, 2010, cop. 2006.
- Chaffey Dave: Digital Business &E-Commerce Management, 6thEdition. Trans-Atlantic Publications, 2015.

Cilji in kompetence:

Učna enota prispeva k razvoju naslednjih splošnih in predmetno specifičnih kompetenc:

- usposobljenost za samostojno in avtonomno uporabo, nadzor in vzdrževanje informacijsko komunikacijske tehnologije v organizaciji
- razvoj (samo)kritične presoje
- sposobnost za reševanje konkretnih družbenih in delovnih problemov z uporabo družboslovnih znanstvenih metod in postopkov
- razumevanje informatizacije z implementacijo celovitih informacijskih rešitev in e-poslovanja v praksi

Objectives and competences:

The instructional unit contributes to the development of the following general and subject-specific competences:

- competence for independent and autonomous use, monitoring and maintenance of information communication technology in an institution
- development of (self)critical judgement;
- competence for solving actual social and work problems with the use of social scientific methods and procedures
- understanding of informatisation with the implementation of comprehensive information and e - business solutions in practice

Predvideni študijski rezultati:

Znanje in razumevanje:

Sposobnost študenta/študentke bo:

- poznavanje osnovnih problemov, ki jih je potrebno reševati pri vzpostavljanju sistemov e-poslovanja
- poznavanje principa izgradnje sistemov e-poslovanja
- poznavanje tehnoloških principov, ki opredeljujejo način reševanja značilnih problemov tega področja
- poznavanje in razumevanje varnostnih tveganj in različnih načinov obrambe pred napadi v sistemih e-poslovanja
- poznavanje temeljev upravljanja in razvoja varnih aplikacij in sistemov ter standardnih načinov preverjanja le-teh

Intended learning outcomes:

Knowledge and understanding:

Students will acquire:

- knowledge of fundamental problems that need to be addressed in the establishment of e-commerce
- knowledge of principles of construction of systems for e-commerce
- knowledge of technological principles that define the way of solving specific problems in this area
- knowledge and understanding of security risks and the various ways of defense against attacks in e-commerce
- knowledge of the fundamentals of management and the development of secure applications and systems as well as standard methods of verification thereof

Metode poučevanja in učenja:

- *predavanja* z aktivno udeležbo študentov (razlaga, diskusija, vprašanja, primeri, reševanje problemov)
- *vaje*, kjer bodo študentje pri konkretnih problemih ponovili, utrdili in dodatno osvetlili pojme, spoznane na predavanjih
- *vaje v računalniški učilnici*, pri katerih bodo študentje uporabili tehnologije, obravnavane na predavanjih; potekale bodo v manjših skupinah, tako da z enim računalnikom dela eden do največ dva študenta
- *projekt*, v okviru samostojnega dela ali dela v parih bo študent samostojno preučil določeno vsebinsko področje ali rešil konkreten problem ter ga predstavil

Learning and teaching methods:

- lectures with active participation of students (explanation, discussion , questions, examples , problem solving)
- exercises where students will use specific problems, to reinforce, consolidate and shed further light on the concepts presented in class
- exercises in the computer lab , where students will use technology discussed in class ; will take place in small groups, one computer to a maximum of two students
- a project in the context of individual work or work in pairs. Students will independently examine certain scope or solve a concrete problem and present it

Načini ocenjevanja:	Delež (v %) / Weight (in %)	Assessment:
Način (pisni izpit, ustno izpraševanje, naloge, projekt): <ul style="list-style-type: none"> • pisni izpit • projekt • vaje 	50 30 20	Type (examination, oral, coursework, project): <ul style="list-style-type: none"> • written exam • seminar • exercises

Reference nosilca / Lecturer's references:

- ROJKO, Katarina, LESJAK, Dušan, VEHOVAR, Vasja. Information communication technology spending in (2008-) economic crisis. *Industrial management + data systems*, ISSN 0263-5577, 2011, no. 3, vol. 111, str. 391-409, tabele. [COBISS.SI-ID 15384373]
- ROJKO, Katarina, LESJAK, Dušan. The impact of the latest (2008-) economic crisis on ICT products. *Issues in information systems*, ISSN 1529-7314, 2014, vol. 15, iss. 2, str. 258-269, graf. prikazi. http://iacis.org/iis/2014/123_iis_2014_258-269.pdf. [COBISS.SI-ID 1537037764]
- ROJKO, Katarina. Transformation of information and communication technology in contemporary society. London: Vega Press, 2015. 58 str., ilustr. ISBN 978-1-909736-04-7. [COBISS.SI-ID 20026418]
- ROJKO, Katarina, LESJAK, Dušan, ŠUŠTERŠIČ, Janez. Information and communication technology spending and the latest (2008-) economic crisis. *International journal of sustainable economy*, ISSN 1756-5804, 2015, vol. 7, iss. 4, str. 306-326, ilustr. <http://www.inderscience.com/info/inarticle.php?artid=72195>, doi: 10.1504/IJSE.2015.072195. [COBISS.SI-ID 38071813]
- ROJKO, Katarina. Razvitost in uporaba kot ključna dejavnika gibanja potrošnje za IKT. 1. izd. Ljubljana: Vega, 2015. 60 str., ilustr. ISBN 978-961-93847-2-5. [COBISS.SI-ID 280675584]
- ROJKO, Katarina. Vpliv zadnje gospodarske krize na odstopanja v difuziji IKT. 1. izd. Ljubljana: Vega, 2015. 64 str., ilustr. ISBN 978-961-93847-3-2. [COBISS.SI-ID 280675840]
- ROJKO, Katarina. Requirements and obstacles of e-research. *Research in social change*, ISSN 1855-4202, May 2016, vol. 8, iss. 2, str. 53-74, ilustr.