

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
Računalništvo in spletne tehnologije, visokošolski strokovni študijski program prve stopnje	-	Drugi ali tretji	Četrty ali šesti
Computer Science and Web Technologies, first cycle Professional Study Programme	-	Second or third	Fourth or sixth

Vrsta predmeta / Course type

Izbirni / Elective

Univerzitetna koda predmeta / University course code:

2-RST-VS-IP- VITeP -2019-04-03

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 / Slovenian, Angleški / English**Vaje / Tutorial:** Slovenski / Slovenian, Angleški / 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:

- razvoj kritične in samokritične presoje
- sposobnost za reševanje konkretnih problemov z uporabo znanih orodij in metod
- sposobnost uporabe informacijsko-komunikacijske tehnologije in sistemov na področjih e-poslovanja
- ozaveščenost o visoki stopnji potrebne varnosti v sistemih e-poslovanja
- ozaveščenost o širokem spektru nevarnosti na področju e-poslovanja

Objectives and competences:

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

- development of critical and self critical evaluation
- the ability to solve practical problems using well-known tools and methods
- the ability to use information and communication technologies and systems in the areas of e-commerce
- awareness of the high level of security needed in the systems of e-commerce
- awareness of the broad range of threats in the field of e-commerce

Predvideni študijski rezultati:

Znanje in razumevanje:

Študent/študentka:

- se seznaniti z osnovnimi problemi, ki jih je potrebno reševati pri vzpostavljanju sistemov e-poslovanja
- spoznati princip izgradnje sistemov e-poslovanja
- spoznati tehnološke principe, ki opredeljujejo način reševanja značilnih problemov tega področja

Intended learning outcomes:

Knowledge and understanding:

The student:

- becomes familiarized with basic problems, which have to be solved when setting up e-business systems
- becomes familiar with the principle of building e-business systems,
- becomes familiar with technological principles defining ways of resolving typical field related problems

- pozna in razume varnostna tveganja in različne načine obrambe pred napadi v sistemih e-poslovanja
- pozna temelje upravljanja in razvoja varnih aplikacij in sistemov ter standardne načine preverjanja le teh

- knows and understands security risks and different ways of protection against attacks within e-business systems
- knows the basics of management and development of secure applications and systems, as well as standard ways of testing them

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):	Delež (v %) / Weight (in %)	Type (examination, oral, coursework, project):
<ul style="list-style-type: none"> • pisni izpit • projekt • vaje 	<p>50</p> <p>30</p> <p>20</p>	<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.