

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	Četrtri
Informatics in Contemporary Society, first cycle Professional Study Programme	-	Second	Fourth

Vrsta predmeta / Course type

Izbirni / Elective

Univerzitetna koda predmeta / University course code:

1-ISD-VS-IP-TEP-2016-10-01

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
30	-	15	-	30	105	6

Nosilec predmeta / Lecturer:**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 2015 (11th Edition), Prentice Hall, 2014.
- ANDERSON, Ross. Security Engineering: A Guide to Building Dependable Distributed Systems, 2. izdaja, Wiley 2008, poglavja 1-6, 8-10, 20,21,25 in 26.
- Stair, R.M., Reynolds, G.W.: Principles of Information Systems (seventh edition), Thomson Learning, 2005.
- KALAKOTA, R.: E-business, Addison Wesley, New York, 2002.
- CHAFFEY, D.: E-Business and E-Commerce Management - Strategy, Implementation and Practice, FT Prentice Hall, 2011.
- SLOVENSKI INŠTITUT ZA STANDARDIZACIJO, SIST ISO/IEC 27001:2013, 2013.

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:

Sposobnost študenta/študentke bo:

- poznavanje osnovnih problemov, ki jih je potrebno reševati pri vzpostavljanju sistemov e-poslovanja

Intended learning outcomes:

Knowledge and understanding:

Students will acquire:

- knowledge of fundamental problems that need to be addressed in the establishment of e-commerce

• 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	• 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
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Metode poučevanja in učenja:

• <i>predavanja</i> z aktivno udeležbo študentov (razlaga, diskusija, vprašanja, primeri, reševanje problemov) • <i>vaje</i>, kjer bodo študentje pri konkretnih problemih ponovili, utrdili in dodatno osvetlili pojme, spoznane na predavanjih • <i>vaje v računalniški učilnici</i>, 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 • <i>projekt</i>, 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
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Delež (v %) /

Weight (in %)

Načini ocenjevanja:

Assessment:

Način (pisni izpit, ustno izpraševanje, naloge, projekt):		Type (examination, oral, coursework, project):
• pisni izpit • projekt • vaje	50 30 20	• written exam • seminar • exercises