| 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**<br>**Study programme and level** | **Študijska smer**<br>**Study field** | **Letnik**<br>**Academic year** | **Semester**<br>**Semester** |
|---|---|---|---|
| Računalništvo in spletne tehnologije, visokošolski strokovni študijski program prve stopnje | - | Drugi ali tretji | Četrti 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 -2016-10-01 |

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

| | |
|---|---|
| **Nosilec predmeta / Lecturer:** | |
| **Jeziki / Languages:** **Predavanja / Lectures:** | Slovenski / Slovenian, Angleški / English |
| **Vaje / Tutorial:** | Slovenski / Slovenian, Angleški / English |

| **Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:** | **Prerequisits:** |
|---|---|
| Študent/študentka mora pred pristopom k izpitu tekoče izpolnjevati obveznosti z vaj ter pripraviti in uspešno zagovarjati svoj projekt. | 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:** | **Content (Syllabus outline):** |
|---|---|
| • e-poslovanje in uporabnik (»družbeni inženiring«)<br>• protokoli v e-poslovanju<br>• nadzor dostopa v sistemih e-poslovanja<br>• uporaba kriptografije<br>• porazdeljeni sistemi (sočasnost, odpornost, zanesljivost)<br>• večnivojska varnost (multilevel security) v sistemih e-poslovanja | • e-commerce and the user ("social engineering")<br>• protocols in e-commerce<br>• access control systems in e-commerce<br>• use of cryptography<br>• distributed Systems (concurrency , resilience , reliability)<br>• multilevel security (multilevel security) systems in e-commerce |

| | |
|---|---|
| • večstranska varnost (multilateral security) v sistemih e-poslovanja<br>• bančništvo in plačilni sistemi<br>• varnost v telekomunikacijskih sistemih<br>• napadi in obramba v računalniških omrežjih<br>• upravljanje in razvoj varnih aplikacij in sistemov e-poslovanja<br>• preverjanje sistemov e-poslovanja<br>• obravnava primerov iz prakse | • multilateral Security ( multilateral security) systems in e-commerce<br>• banking and payment systems<br>• security in telecommunication systems<br>• attacks and defenses on computer networks<br>• management and development of secure applications and e-business systems<br>• verification of e-commerce<br>• 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:** | **Objectives and competences:** |
|---|---|
| *Učna enota prispeva k razvoju naslednjih splošnih in predmetno specifičnih kompetenc:*<br>• razvoj kritične in samokritične presoje<br>• sposobnost za reševanje konkretnih problemov z uporabo znanih orodij in metod<br>• sposobnost uporabe informacijsko-komunikacijske tehnologije in sistemov na področjih e-poslovanja<br>• ozaveščenost o visoki stopnji potrebne varnosti v sistemih e-poslovanja<br>• ozaveščenost o širokem spektru nevarnosti na področju e-poslovanja | *The instructional unit contributes to the development of the following general and subject-specific competences*:<br>• evelopment of critical and self critical evaluation<br>• the ability to solve practical problems using well-known tools and methods<br>• the ability to use information and communication technologies and systems in the areas of e-commerce<br>• awareness of the high level of security needed in the systems of e-commerce<br>• awareness of the broad range of threats in the field of e-commerce |

| **Predvideni študijski rezultati:** | **Intended learning outcomes:** |
|---|---|
| Znanje in razumevanje:<br>*Študent/študentka:*<br>• se seznani z osnovnimi problemi, ki jih je potrebno reševati pri vzpostavljanju sistemov e-poslovanja<br>• spozna princip izgradnje sistemov e-poslovanja<br>• spozna tehnološke principe, ki opredeljujejo način reševanja značilnih problemov tega področja | Knowledge and understanding:<br>*The student:*<br>• becomes familiarized with basic problems, which have to be solved when setting up e-business systems<br>• becomes familiar with the principle of building e-business systems,<br>• 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<br>• 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<br>• knows the basics of management and development of secure applications and systems, as well as standard ways of testing them |

| **Metode poučevanja in učenja:** | **Learning and teaching methods:** |
|---|---|
| • *predavanja* z aktivno udeležbo študentov (razlaga, diskusija, vprašanja, primeri, reševanje problemov)<br>• *vaje,* kjer bodo študentje pri konkretnih problemih ponovili, utrdili in dodatno osvetlili pojme, spoznane na predavanjih<br>• *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<br>• *projekt*, v okviru samostojnega dela ali dela v parih bo študent samostojno preučil določeno vsebinsko področje ali rešil konkreten problem ter ga predstavil | • lectures with active participation of students ( explanation, discussion , questions, examples , problem solving )<br>• Exercises where students will use specific problems, to reinforce, consolidate and shed further light on the concepts presented in class<br>• 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<br>• 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): | | Type (examination, oral, coursework, project): |
| • pisni izpit<br>• projekt<br>• vaje | 50<br>30<br>20 | • written exam<br>• seminar<br>• exercises |