

UČNI NAČRT PREDMETA / COURSE SYLLABUS (leto / year 2017/18)						
Predmet:		Elektronsko poslovanje				
Course title:		Electronic business				
Študijski program in stopnja Study programme and level		Študijska smer Study field		Letnik Academic year	Semester Semester	
Interdisciplinarni univerzitetni študijski program Računalništvo in matematika		ni smeri		3	prvi	
Interdisciplinary first cycle academic study programme Computer Science and Mathematics		none		3	first	
Vrsta predmeta / Course type				izbirni / elective		
Univerzitetna koda predmeta / University course code:				63249		
Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
45		30			105	6
Nosilec predmeta / Lecturer:		prof. dr. Denis Trček				
Jeziki / Languages:	Predavanja / Lectures:	slovenski / Slovene				
	Vaje / Tutorial:	slovenski / Slovene				
Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:				Prerequisites:		
Vpis v letnik študija.				Enrolment in the programme.		
Vsebina:				Content (Syllabus outline):		

<p>Poglavja predmeta obsegajo:</p> <p>Uvod in temeljne definicije.</p> <p>Kratek zgodovinski pregled razvoja e-poslovanja.</p> <p>Sistemski pogled na e-poslovanje skozi analizo generičnih struktur (zunanje in notranje logistične verige ter vpliv odločanja na njihovo obnašanje).</p> <p>Tehnološki vidiki: RIP, XML, spletne storitve in storitve v oblaku, komponentne arhitekture, digitalni plačilni sistemi, novi trendi kot so semantični splet, internet stvari in mobilne aplikacije.</p> <p>Organizacijski vidiki: evolucija poslovnih funkcij in procesov, evolucija informacijskih sistemov, novi poslovni modeli, revizijski postopki COBIT in ISO 27000.</p> <p>Zakonodajni vidiki s poudarkom na ZEPEP, ZEPEP-A, ter ZEKOM.</p> <p>Specifični vidiki načrtovanja in vpeljave sistemov e-poslovanja (spremembe pri strateškem načrtovanju IS, uporaba formalnih metod kot je jezik Z, skladnost s standardi kot je Common Criteria).</p> <p>Zaključki.</p> <p>Addendum: Mini vložki s praktičnim delom, ki pokrivajo najnovejše trende.</p>	<p>The course contains the following themes:</p> <p>Introduction and basic definitions.</p> <p>Short historical overview of the field.</p> <p>Systemic view on e-business through its generic structures (internal and external logistic chains, their influence on decision making).</p> <p>Technological views: EDI, XML, web services / cloud computing, component architectures, digital payment systems, new technological trends like semantic web, internet of things and mobile applications.</p> <p>Organizational views (evolution of business functions and processes, new business models, auditing procedures ISO 27000).</p> <p>Legislation views with emphasis on ZEPEP, ZEPEP-A, ZEKOM.</p> <p>Specific views related to development and introduction of e-business systems (strategic planning changes, use of formal methods, and compliance with standards like Common Criteria).</p> <p>Conclusions.</p> <p>Addendum: Mini practical tasks covering the latest selected technological trends.</p>
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Temeljni literatura in viri / Readings:

D. Trček: Elektronsko poslovanje, kopije prosojnic, FRI, Ljubljana, 2014.

Dodatna literatura / Additional literature:

R. Kalakota: E-business, Addison Wesley, New York, 2002.

Dave Chaffey: E-Business and E-Commerce Management - Strategy, Implementation and Practice, FT Prentice Hall, 2011.

Sterman J.: Business Dynamics, Prentice Hall, 2002.

Cilji in kompetence:

Cilj predmeta je seznaniti študenta s tehnološkimi, organizacijskimi in zakonskimi (pravnimi) znanji, ki jih prinaša elektronsko poslovanje (ter najnovejšimi trendi na tem področju). Poudarek je na praktični usposobljenosti študenta, saj se študent nauči modelirati poslovni (pod)proces, razvije ustrezno aplikacijo za e-poslovanje v okviru tega (pod)procesa in jo integrira v zaledni informacijski sistem.

Kategorizirane kompetence:

- Sposobnost definiranja, razumevanja in reševanja kreativnih profesionalnih izzivov na področju računalništva in informatike.
- Sposobnost profesionalnega komuniciranja v materinem in tujem jeziku.
- Sposobnost biti skladen z varnostnimi, funkcionalnimi in okoljskimi zahtevami.
- Sposobnost razumevanja in uporabe znanja računalništva in informatike na drugih relevantnih področjih (ekonomija, organizacija, itd.).
- Sposobnost samostojnega reševanja in izvedbe manj zahtevnih oz. manj kompleksnih

Objectives and competences:

The objective of the course is to familiarize students with technological, organizational and legal knowledge that is required in e-business along with the latest trends in this area. The emphasis is on practical skills, i.e., students model a business (sub)process, develop a necessary e-business application and integrate it with the background information system.

Categorized competences:

- The ability to define, understand and solve creative professional challenges in computer and information science.
- The ability of professional communication in the native language as well as a foreign language.
- Compliance with security, functional, economic and environmental principles.
- The ability to understand and apply computer and information science knowledge to other technical and relevant fields (economics, organisational science, etc).
- The ability to independently perform both less demanding and complex engineering and

inženirskih in organizacijskih opravil v računalništvu in informatiki.

organisational tasks in certain narrow areas and independently solve specific well-defined tasks in computer and information science.

Predvideni študijski rezultati:

Znanje in razumevanje:

Razumevanje konceptov elektronskega poslovanja ter integracija z znanji, dobljenimi pri drugih predmetih s tehničnega in organizacijskega področja.

Uporaba:

Sposobnost za razvoj, administracijo ali vodenje sistemov e-poslovanja v organizacijah.

Refleksija:

Razumevanje teoretičnih konceptov, pridobljenih na predavanjih skozi praktično realizacijo na vajah.

Prenosljive spretnosti - niso vezane le na en predmet:

Sposobnost integracije pridobljenih znanj z drugimi področji (obvladovanje in načrtovanje inf. sistemov, vodenje projektov, razvoj spletnih aplikacij, mobilne platforme), sposobnost samostojne pisne in ustne predstavitve strokovne problematike ter javnega nastopanja, podjetniško razmišljanje.

Intended learning outcomes:

Knowledge and understanding:

Understanding of concepts of e-business and their integration with knowledge and skills obtained through other related courses.

Application:

Ability to develop, administer and manage e-business systems in organizations.

Reflection:

Understanding of theoretical concepts and their practical implementation through laboratory work.

Transferable skills:

Ability to integrate knowledge from various fields (and other courses) like information systems planning, information systems management, web applications development and mobile platforms. Further, stimulation of entrepreneurship's mind-set and ability to communicate, work in teams, and public presentation of work.

Metode poučevanja in učenja:

Predavanja, vaje s projektnim delom (praktične prototipne implementacije), lastne predstavitve.

Udeležba na vajah je obvezna (zahtevan procent udeležbe se določi ob začetku št. leta). Nosilec predmeta lahko določi obvezno udeležbo tudi na predavanjih.

Learning and teaching methods:

Lectures, laboratory work (with practical prototype implementations), students' presentations.

Attendance of laboratory work is mandatory (the exact percentage is announced at the beginning of a study year). The lecturer may also impose mandatory attendance of lectures as well.

Načini ocenjevanja:	Delež (v %) / Weight (in %)	Assessment:
<p>50 % ocene predstavlja sprotno delo študenta in sicer v obliki preverjanj na vajah (domače naloge, kvizi, praktičen projekt), 50 % ocene pa predstavlja izpit, ki je načeloma v pisni obliki (nosilec lahko namesto pisnega izpita uvede zahtevnejši seminar, lahko pa tudi dodatni ustni zagovor).</p> <p>Za uspešno opravljene obveznosti pri predmetu morata biti pozitivni obe delni oceni. Pristop k izpitu je možen le po uspešno opravljenih obveznostih pri vajah.</p> <p>Ocene: 6-10 pozitivno, 1-5 negativno</p> <p>(v skladu s Statutom UL)</p>	<p>50%</p> <p>50%</p>	<p>Type (examination, oral, coursework, project):</p> <p>Continuing (homework, midterm exams, project work)</p> <p>Final (written and oral exam)</p> <p>Grading: 6-10 pass, 1-5 fail.</p>

Reference nosilca / Lecturer's references:

TRČEK, Denis, BRODNIK, Andrej. Hard and soft security provisioning for computationally weak pervasive computing systems in e-health. IEEE wireless communications, ISSN 1536-1284. [Print ed.], Aug. 2013, vol. 20, no. 4, 8 str., ilustr. [COBISS.SI-ID 10091092]

TRČEK, Denis. Trust management in the pervasive computing era. IEEE security & privacy, ISSN 1540-7993. [Print ed.], 2011, vol. 9, no. 4, str. 52-55, ilustr. [COBISS.SI-ID 8554836]

ZUPANČIČ, Eva, TRČEK, Denis. QADE : a novel trust and reputation model for handling false trust values in e-commerce environments with subjectivity consideration. Technological and economic development of economy, ISSN 2029-4913. [Print ed.], 2015, vol. , no. , str. 1-30, ilustr. [COBISS.SI-ID 1536328643]

TRČEK, Denis. Qualitative assessment dynamics: complementing trust methods for decision making. International journal of information technology & decision making. [Online ed.], 2014, vol. 13, no. 1, str. 155-173.[COBISS.SI-ID 10341204]

TORJUSEN, Arild B., ABIE, Habtamu, PAINTSIL, Ebenezer, TRČEK, Denis, SKOMEDAL, Åsmund. Towards run-time verification of adaptive security for IoT in eHealth , Proceedings of the ECSA 2014 Workshops & Tool Demos Track : ECSAW '14, (ACM proceedings, ISSN 2168-4081). New York (NY): The Association for Computing Machinery, 2014, str. 1-8, ilustr. [COBISS.SI-ID 10728532]