

# ELEKTRONSKO POSLOVANJE

## UČNI NAČRT PREDMETA/COURSE SYLLABUS

<b>Predmet:</b>	ELEKTRONSKO POSLOVANJE
<b>Course title:</b>	ELECTRONIC BUSSINESS
<b>Članica nosilka/UL</b>	
<b>Member:</b>	

Študijski programi in stopnja	Študijska smer	Letnik	Semestri	Izbirnost
Upravna informatika, prva stopnja, univerzitetni	Upravna informatika (študijski program)	3. letnik	1. semester	obvezen

<b>Univerzitetna koda predmeta/University course code:</b>	0045564
<b>Koda učne enote na članici/UL Member course code:</b>	1071

Predavanja /Lectures	Seminar /Seminar	Vaje /Tutorials	Klinične vaje /Clinical tutorials	Druge oblike študija /Other forms of study	Samostojno delo /Individual student work	ECTS
45	0	30	0	0	105	6

**Nosilec predmeta/Lecturer:** Denis Trček

**Vrsta predmeta/Course type:** obvezni/core

**Jeziki/Languages:**

Predavanja/Lectures:	Slovenščina
Vaje/Tutorial:	Slovenščina

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

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**Prerequisites:**

### Vsebina:

Poglavja predmeta obsegajo:

1. Uvod in temeljne definicije.
2. Kratek zgodovinski pregled razvoja e-poslovanja.
3. Sistemski pogled na e-poslovanje skozi analizo generičnih struktur (zunanje in notranje logistične verige in verige dodane vrednosti ter vpliv odločanja na njihovo obnašanje).
4. Tehnološki vidiki: RIP, XML, spletne storitve, komponentne arhitekture, digitalni plačilni sistemi (BitCoin), semantični splet, internet stvari, mobilne aplikacije.
5. Organizacijski vidiki: evolucija poslovnih funkcij, procesov in informacijskih sistemov, novi poslovni modeli, revizijski postopki - COBI.
6. Zakonodajni vidiki s poudarkom na ZEPEP, ZEPEP-A, ter ZEKOM.
7. Specifični vidiki načrtovanja in vpeljave sistemov e-poslovanja: spremembe strateškega načrtovanja

### Content (Syllabus outline):

The course contains the following themes:

1. Introduction and basic definitions.
2. Short historical overview of the e-business field.
3. Systemic view on e-business through its generic structures (internal and external logistic and value added chains, the influence of decision making on their behavior).
4. Technological views: EDI, XML, web services, component architectures, digital payment systems (BitCoin), semantic web technologies, internet of things and mobile applications.
5. Organizational views: evolution of business functions, processes and information systems, new business models, auditing procedures (COBIT).
6. Legislation views with emphasis on ZEPEP, ZEPEP-A, ZEKOM.

<p>IS, uporaba formalnih metod (jezik Z), skladnost s standardi kot je Common Criteria.</p> <p>8. Varovanje intelektualne lastnine.</p> <p>9. Zaključki.</p> <p>10. Addendum: Mini vložki s praktičnim delom, ki pokrivajo najnovejše trende</p>	<p>7. Specific views related to development and introduction of e-business systems: strategic planning changes, use of formal methods (language Z), and compliance with standards like Common Criteria.</p> <p>8. Intellectual property issues.</p> <p>9. Conclusions.</p> <p>10. Addendum: Mini practical tasks covering the latest selected technological trends</p>
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### Temeljna literatura in viri/Readings:

<p>1. D. Trček: <i>Elektronsko poslovanje</i>, kopije prosojnic, FRI, Ljubljana, 2017.</p> <p>Dodatna literatura / Additional literature:</p> <p>1. R. Kalakota: <i>E-business</i>, Addison Wesley, New York, 2002.</p> <p>2. Dave Chaffey: <i>E-Business and E-Commerce Management</i>, FT Prentice Hall, 2011.</p> <p>3. Sterman J.: <i>Business Dynamics</i>, Prentice Hall, 2002</p>
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### Cilji in kompetence:

<p>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.</p> <p>Kategorizirane kompetence:</p> <ul style="list-style-type: none"> <li>-Sposobnost definiranja, razumevanja in reševanja kreativnih profesionalnih izzivov na področju računalništva in informatike.</li> <li>-Sposobnost profesionalnega komuniciranja v materinem in tujem jeziku.</li> <li>-Sposobnost biti skladen z varnostnimi, funkcionalnimi in okoljskimi zahtevami.</li> <li>-Sposobnost razumevanja in uporabe znanja računalništva in informatike na drugih relevantnih področjih (organizacija, itd.).</li> <li>-Sposobnost samostojnega reševanja in izvedbe manj zahtevnih oz. manj kompleksnih inženirskih in organizacijskih opravil v računalništvu in informatiki.</li> </ul>	<p><b>Objectives and competences:</b></p> <p>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.</p> <p>Categorized competences:</p> <ul style="list-style-type: none"> <li>- The ability to define, understand and solve creative professional challenges in computer and information science.</li> <li>- The ability of professional communication in the native language as well as in a foreign language.</li> <li>- Compliance with security, functional, economic and environmental principles.</li> <li>- The ability to understand and apply computer and information science knowledge to other technical and relevant fields (organisational science, etc).</li> <li>-The ability to independently perform less demanding and less complex engineering and organisational tasks requiring the application of in computer and information systems domain.</li> </ul>
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### Predvideni študijski rezultati:

<p>Po opravljenem predmetu bo študent:</p> <ul style="list-style-type: none"> <li>-razumel koncepte elektronskega poslovanja;</li> <li>-poznal ključne poslovne rešitve s področja e-poslovanja;</li> <li>-sposoben razvoja osnovnih rešitev s področja e-poslovanja in njihovega upravljanja;</li> <li>-sposoben integracije pridobljenih znanj z drugimi pridruženimi inženirskimi področji, predvsem razvoja informacijskih sistemov ter spletnih in mobilnih aplikacij;</li> <li>-obvladal temeljne koncepte podjetniškega razmišljanja;</li> </ul>	<p><b>Intended learning outcomes:</b></p> <p>After completing this course a student will:</p> <ul style="list-style-type: none"> <li>-understand the key concepts of e-business;</li> <li>-know the key business solutions in the area of e-business;</li> <li>-be able to develop basic solutions for e-business and their administration;</li> <li>-will know how to integrate acquired knowledge with associated engineering areas, in particular information systems development, web and mobile applications;</li> <li>-will be familiar with the basic principles of business thinking;</li> <li>-will be able to prepare short articles and their oral presentations with themes in the area of e-business.</li> </ul>
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-sposoben samostojne pisne in ustne predstavitve problematike s področja e-poslovanja.	
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**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 študijskega 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/Weight**

**Assessment:**

50 % ocene predstavlja sprotno delo študenta in sicer v obliki preverjanj na vajah (domače naloge, kvizi, praktičen projekt), 50 % ocene pa predstavljata izpit, ki je načeloma v pisni obliki (nosilec lahko namesto pisnega izpita uvede zahtevnejši seminar, lahko pa tudi dodatni ustni zagovor). Za uspešno opravljene obveznosti pri predmetu morata biti pozitivni obe delni oceni. Pristop k izpitu je možen le po uspešno opravljenih obveznostih pri vajah. Ocene: 6-10 pozitivno, 1-5 negativno (v skladu s Statutom UL)	50,00 %	50% of the final grade is obtained on the basis of on-going work in the laboratory (home-works, quizzes, practical project implementations and presentations). The other 50% is obtained on the basis of written exam, which may be complemented by oral exam if a lecturer decides so. The lecturer may also impose a rule that a quality coursework serves as a replacement for exam. To be eligible for written exam, a candidate must have successfully completed laboratory work. For successful completing of the course both grades have to be positive. Grading: 6-10 pass, 1-5 fail
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**Reference nosilca/Lecturer's references:**

**Pet najpomembnejših del / Five relevant publications**

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. <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5968087&tag=1>. [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.

<http://www.tandfonline.com/doi/abs/10.3846/20294913.2015.1022810#.VXE-ArdWG70>, doi: 10.3846/20294913.2015.1022810. [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, doi: 10.1142/S0219622014500072. [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. <http://dl.acm.org/citation.cfm?id=2642807> [COBISS.SI-ID 10728532].

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<http://sicris.izum.si/search/rsr.aspx?lang=slv&id=7226>